

CURRICULUM VITÆ ET STUDIORUM

di Giuseppe Della Ricca.

Cronologia.

- ◇ Da giugno 1992 sono associato alle attività di ricerca dell'Istituto Nazionale di Fisica Nucleare (INFN) nel campo della fisica delle particelle elementari, presso la Sezione di Trieste;
- ◇ Da luglio 1992 sono associato alle attività di ricerca al CERN (Ginevra, Svizzera);
- ◇ Da luglio 1992 a ottobre 2007 ho fatto parte della collaborazione DELPHI al CERN (Ginevra, Svizzera);
- ◇ Mi sono laureato il 10 dicembre 1993 discutendo la tesi: *STIC: Il nuovo Monitor di Luminosità di DELPHI*. (relatore: prof. P. Poropat, correlatore: dott. T. Camporesi) e la tesina: *Una tecnica per equalizzare i dati di un rivelatore a matrice ispirata alla retina*. (relatore: dott. M. Budinich), conseguendo il punteggio di 110/110 e lode;
- ◇ Ho trascorso il periodo febbraio 1993 - agosto 1994 presso il CERN collaborando alle varie fasi di studio, costruzione e test del calorimetro STIC per l'esperimento DELPHI al LEP;
- ◇ Durante il periodo settembre 1994 - maggio 1995 ho usufruito di una borsa di studio dell'INFN per neolaureati, vinta in un concorso nazionale per titoli ed esame, risultando al primo posto nella graduatoria generale di merito per il settore Fisica delle Particelle e dei Fenomeni Fondamentali;
- ◇ Da gennaio 1995 a dicembre 2006 ho fatto parte della collaborazione BaBar a SLAC (Stanford, USA);
- ◇ Dal 1995 al 2006 sono stato associato alle attività di ricerca a SLAC (Stanford, USA);
- ◇ A febbraio 1995 ho vinto il concorso pubblico per l'ammissione al dottorato di ricerca in fisica (X ciclo di dottorato) presso l'Università degli Studi di Trieste, risultando al primo posto nella graduatoria finale dei vincitori. I risultati delle mie ricerche sono riportati nella tesi: *Determinazione della sezione d'urto per il processo $e^+e^- \rightarrow q\bar{q}(\gamma)$ a LEP1.5 e LEP2 in DELPHI*, (supervisore: prof. P. Poropat, referee: prof. G. Giacomelli). Il 22 maggio 1998 ho superato, presso l'Università degli Studi di Milano, l'esame finale per il conferimento del titolo di Dottore di Ricerca;
- ◇ Da luglio 1998 a novembre 1999 ho usufruito di una borsa di studio *post-doctoral* dell'INFN per fisici sperimentali, vinta in un concorso nazionale per titoli ed esame, risultando al terzo posto nella graduatoria generale di merito;
- ◇ Da maggio 2000 a maggio 2001 ho usufruito di una borsa di studio *post-doctoral* dell'Università degli Studi di Trieste, vinta in un concorso per titoli ed esame, risultando al primo posto nella graduatoria generale di merito;
- ◇ A dicembre 2000 sono risultato vincitore della valutazione comparativa per la copertura di un posto di ricercatore universitario per il settore scientifico-disciplinare B01A - Fisica Generale presso la Facoltà di Scienze Matematiche, Fisiche e Naturali dell'Università degli Studi di Trieste;
- ◇ Il 7 maggio 2001 ho preso servizio come ricercatore universitario per il settore scientifico-disciplinare FIS/01 - Fisica Sperimentale (Area 02 Scienze fisiche) presso il Dipartimento di Fisica dell'Università degli Studi di Trieste;

Ultimo aggiornamento: 4 febbraio 2026

- ◊ Dal 3 agosto 2001 sono titolare di un incarico di ricerca presso la Sezione di Trieste dell'INFN;
- ◊ Da dicembre 2004 a marzo 2007 sono stato referente per la ricerca del Dipartimento di Fisica dell'Università degli Studi di Trieste;
- ◊ Il 3 gennaio 2005 sono stato confermato nel ruolo dei ricercatori universitari confermati a tempo pieno per il settore FIS/01 - Fisica Sperimentale (Area 02 Scienze fisiche), a decorrere dal 7 maggio 2004;
- ◊ Da giugno 2005 faccio parte della collaborazione CMS al CERN, sono responsabile scientifico del gruppo CMS di Trieste, membro del comitato internazionale degli istituti che partecipano a CMS (*CMS Collaboration Board*), membro del comitato internazionale degli istituti coinvolti nelle attività legate al calorimetro ECAL di CMS (*CMS ECAL Institution Board*);
- ◊ Da luglio 2005 a luglio 2007 ho fatto parte della Commissione Calcolo e Reti dell'INFN;
- ◊ Da dicembre 2005 a novembre 2007 ho avuto il compito di supervisore di un assegno di ricerca su fondi INFN-Grid (dott. C. Kavka);
- ◊ Da febbraio 2007 a dicembre 2009 sono stato membro della Giunta del Dipartimento di Fisica dell'Università degli Studi di Trieste;
- ◊ Da dicembre 2007 a gennaio 2008 ho avuto il compito di supervisore di un assegno di ricerca su cofinanziamento con fondi dell'INFN e dell'Università degli Studi di Trieste (dott. C. Kavka);
- ◊ Da settembre 2008 a novembre 2009 ho avuto il compito di supervisore di un assegno di ricerca su cofinanziamento con fondi dell'INFN e dell'Università degli Studi di Trieste (dott. F. Ambroglini);
- ◊ Da giugno 2009 a febbraio 2012 sono stato membro del comitato internazionale per le conferenze del calorimetro ECAL di CMS (*CMS ECAL Conference Committee*);
- ◊ Durante il 2011 sono stato membro del comitato esecutivo allargato internazionale di CMS (*CMS Extended Executive Board*);
- ◊ Da aprile 2011 sono membro del Collegio dei Docenti del Dottorato in Fisica dell'Università degli Studi di Trieste;
- ◊ Da luglio 2011 a dicembre 2012 ho avuto il compito di supervisore di un assegno di ricerca su cofinanziamento con fondi del progetto PRIN 2008 e del Dipartimento di Fisica dell'Università degli Studi di Trieste (dott. M. Marone);
- ◊ Da novembre 2011 a dicembre 2014 ho ricoperto il ruolo di responsabile nazionale delle attività dei gruppi italiani impegnati sul calorimetro elettromagnetico ECAL dell'esperimento CMS, sono stato membro del comitato direttivo internazionale (*CMS ECAL Steering Committee*) e del comitato finanziario internazionale (*CMS ECAL Finance Board*) del calorimetro ECAL di CMS;
- ◊ Da dicembre 2011 a ottobre 2024 ho fatto parte della Commissione Didattica del Corso di Laurea Triennale in Fisica dell'Università degli Studi di Trieste;
- ◊ A novembre 2012 sono stato nominato Direttore Vicario del Dipartimento di Fisica dell'Università di Trieste per il triennio 2012-2015;
- ◊ Da gennaio 2013 faccio parte del Gruppo di Riesame per il sistema di Autovalutazione, Valutazione periodica e Accreditamento del Corso di Laurea Triennale in Fisica dell'Università degli Studi di Trieste;

- ◊ Da gennaio 2013 a ottobre 2014 sono stato supervisore di un assegno di ricerca su cofinanziamento con fondi dell'INFN e del Consorzio per la Fisica - Trieste (dott. M. Marone);
- ◊ A gennaio 2014 ho ottenuto l'Abilitazione Scientifica Nazionale alle funzioni di professore di prima e di seconda fascia nel settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali (ASN 2012);
- ◊ Da febbraio 2014 a gennaio 2016 sono stato supervisore di un assegno di ricerca su cofinanziamento con fondi del progetto PRIN 2010/11 e dell'INFN (dott. V. Candelise);
- ◊ Da settembre 2014 ad agosto 2020 ho presieduto il comitato internazionale costituito dai rappresentanti dei circa 40 gruppi di ricerca, provenienti da 15 nazioni, di cui fanno parte più di 300 ricercatori coinvolti nelle attività legate al calorimetro ECAL di CMS (*CMS ECAL Institution Board*), e ho fatto parte d'ufficio del *CMS ECAL Editorial Board* e del *CMS ECAL Conference Committee*;
- ◊ A settembre 2014 sono risultato uno dei vincitori della procedura valutativa indetta per la chiamata di due professori universitari di seconda fascia per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali - settore scientifico-disciplinare FIS/01- Fisica Sperimentale presso il Dipartimento di Fisica dell'Università degli Studi di Trieste;
- ◊ Il 1° ottobre 2014 ho preso servizio come professore associato per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali - settore scientifico-disciplinare FIS/01 - Fisica Sperimentale presso il Dipartimento di Fisica dell'Università degli Studi di Trieste;
- ◊ Da marzo 2015 a novembre 2024 ho fatto parte del Gruppo per l'Assicurazione della Qualità del Corso di Laurea Triennale in Fisica dell'Università degli Studi di Trieste;
- ◊ Ad agosto 2015 sono stato nominato Direttore Vicario del Dipartimento di Fisica dell'Università di Trieste per il triennio 2015-2018;
- ◊ Da settembre 2015 ad agosto 2018 ho fatto parte della Commissione Programmazione del Dipartimento di Fisica dell'Università degli Studi di Trieste;
- ◊ Da settembre 2015 a gennaio 2024 ho fatto parte del comitato internazionale che guida il processo di approvazione e di pubblicazione dei risultati di fisica di CMS (*CMS Publications Committee*);
- ◊ Da novembre 2015 a ottobre 2024 ho fatto parte della Commissione Didattica per il Dottorato di Ricerca in Fisica dell'Università di Trieste come referente per il settore Fisica Subnucleare, Nucleare e Fisica Medica;
- ◊ Ad ottobre 2018 ho ottenuto il rinnovo dell'Abilitazione Scientifica Nazionale alle funzioni di professore di prima fascia nel settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali (ASN 2016-2018);
- ◊ Da dicembre 2019 ad agosto 2024 ho ricoperto il ruolo di Delegato per la Ricerca del Dipartimento di Fisica dell'Università degli Studi di Trieste;
- ◊ A gennaio 2020 sono risultato vincitore della procedura valutativa indetta per la chiamata di un professore universitario di prima fascia per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali - settore scientifico-disciplinare FIS/01- Fisica Sperimentale presso il Dipartimento di Fisica dell'Università degli Studi di Trieste;
- ◊ Da febbraio 2020 ad agosto 2024 ho fatto parte del Gruppo per l'Assicurazione della Qualità del Dipartimento di Fisica dell'Università degli Studi di Trieste;

- ◊ Il 2 marzo 2020 ho preso servizio come professore ordinario per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali - settore scientifico-disciplinare FIS/01 - Fisica Sperimentale presso il Dipartimento di Fisica dell'Università degli Studi di Trieste;
- ◊ Da febbraio 2023 a settembre 2023 sono stato supervisore di un assegno di ricerca su cofinanziamento con fondi dell'INFN e del Dipartimento di Fisica dell'Università degli Studi di Trieste (dott.ssa K. de Leo);
- ◊ Dal 31 maggio 2024 sono inquadrato nel gruppo scientifico-disciplinare 02/PHYS-01 - Fisica Sperimentale delle Interazioni Fondamentali e Applicazioni - settore scientifico-disciplinare PHYS-01/A - Fisica Sperimentale delle Interazioni Fondamentali e Applicazioni;
- ◊ A settembre 2024 ho preso servizio come Direttore del Dipartimento di Fisica dell'Università degli Studi di Trieste per il triennio 2024-2027;
- ◊ A novembre 2024 ho preso servizio come rappresentante dell'Area Fisica nel Senato Accademico dell'Università degli Studi di Trieste per il triennio 2024-2027.

Attività di ricerca.

- ◊ Ho iniziato la mia attività di ricerca durante il IV anno di corso di laurea con un lavoro sulla *Misura del flusso di raggi cosmici al livello del mare, della vita media dei mesoni μ in ferro e alluminio e della costante di Fermi dell'interazione debole*, svolto durante il corso di Laboratorio di Fisica II.
- ◊ Durante il periodo di preparazione della tesi di laurea [1] mi sono inserito nei programmi scientifici del gruppo I della Sezione di Trieste dell'INFN nell'ambito dello studio di un nuovo calorimetro elettromagnetico per l'esperimento DELPHI [2042] al CERN.
- ◊ Nell'estate del 1996 ho iniziato a lavorare al progetto STIC (*Small angle Tile Calorimeter*), un calorimetro a campionamento con piani assorbitori in piombo alternati a piani di materiale scintillante, e lettura a fibre ottiche, strumentato con due piani di rivelatori a strip di silicio, partecipando alla costruzione di un prototipo del rivelatore ed al suo primo test su fascio [2282].
- ◊ Nel febbraio 1993 sono stato chiamato a lavorare al CERN alla realizzazione del calorimetro STIC per l'esperimento DELPHI. Durante questo periodo ho partecipato alla messa a punto di un telescopio di camere proporzionali multi-fili, utilizzate per lo studio delle prestazioni del rivelatore STIC [2283,2284,2299–2301]. Ho collaborato alla preparazione dell'elettronica e del *software* per il test su fascio del primo modulo del calorimetro, curando la parte di allineamento e tracciamento (tramite le camere a fili) e di controllo *online* dei dati, e partecipando all'analisi dei dati stessi. Ho contribuito allo sviluppo del programma di simulazione Monte Carlo del calorimetro STIC ed in particolare alla simulazione dei rivelatori di silicio [40]. Ho studiato diversi algoritmi per la ricostruzione dell'asse dello sciame elettromagnetico utilizzando il deposito di energia nel silicio. Ho lavorato all'ottimizzazione dei parametri utilizzati dal programma di simulazione e al confronto dei dati sperimentali con i risultati delle simulazioni [1,64].
- ◊ Nell'ambito del tema di ricerca previsto dalla borsa di studio INFN per neo-laureati (*Calorimetria elettromagnetica e misura della luminosità: lo STIC, il nuovo calorimetro di DELPHI*), ho continuato la mia collaborazione nel gruppo che si occupava dello sviluppo del programma di simulazione del calorimetro STIC, seguendo in particolare la descrizione geometrica e fisica del rivelatore e l'ottimizzazione dei parametri del pacchetto GEANT in relazione ai tempi di calcolo.

Ho seguito lo sviluppo di nuove tecniche per la produzione dei *fanin* di ceramica necessari per combinare il passo dei canali dei preamplificatori con quello dei circuiti utilizzati per trasportare i segnali raccolti dai rivelatori di silicio [2285,2287,2290,2317]. In particolare, in collaborazione con industrie locali, ho seguito le possibilità offerte da nuovi metodi di deposito d'oro su substrati di vario tipo e da nuovi metodi di saldatura e incollaggio di componenti su tali substrati, giungendo infine alla realizzazione dei circuiti suddetti ed al loro test.

Una parte importante del lavoro svolto è stata costituita dall'analisi dei dati raccolti su fascio di test nel luglio 1994 con il modulo di riserva dello STIC [2286,2288,2289]. Dopo aver preso parte attiva nella costruzione, nei test e nell'assemblaggio dei due piani di rivelatori di silicio inseriti all'interno del calorimetro, sono stato impegnato nell'analisi delle componenti di rumore che sono state messe in risalto durante il test. In seguito ho utilizzato l'esperienza così sviluppata per analizzare i dati raccolti durante il 1995 dal calorimetro STIC a LEP [2291–2298]. Ho avuto la responsabilità dell'analisi dei rivelatori di silicio, del programma di *monitor online* dei dati e di decodifica/*clustering* e ricostruzione di posizione. Ho partecipato inoltre allo studio ed ottimizzazione di un algoritmo per la sottrazione *online* del rumore coerente dei rivelatori di silicio [67].

All'inizio del 1995 ho partecipato attivamente alle diverse fasi di installazione del rivelatore STIC a DELPHI, contribuendo soprattutto al montaggio e test dell'elettronica utilizzata dai rivelatori di silicio. Ho seguito in prima persona il periodo di test effettuato nell'agosto 1995 con il modulo di riserva dello STIC, occupandomi della parte relativa ai rivelatori di silicio. Ho seguito inoltre l'installazione di due telescopi di rivelatori di silicio a microstrip, occupandomi del controllo *online* del loro funzionamento.

- ◊ Nell'ambito della mia tesi di dottorato [2], all'inizio del 1996 sono entrato a far parte del gruppo (Team 4) che all'interno di DELPHI [51,2042] studiava la sezione d'urto adronica del processo $e^+e^- \rightarrow \gamma/Z^0 \rightarrow q\bar{q}\gamma$ [2012,2163,2251,2252]. Ho iniziato ad occuparmi dell'analisi dei dati raccolti da DELPHI alla fine del 1995, ad energie di 130, 136 e 140 GeV [41,42]. In particolare, sono state verificate le previsioni del Modello Standard per quanto riguarda la sezione d'urto adronica totale e quella non radiativa, corrispondente ad eventi in cui l'energia effettiva nel centro di massa è maggiore dell'85% dell'energia nominale ($\sqrt{s'} > 0.85\sqrt{s}$) [2303]. Ho inoltre analizzato la possibilità di utilizzare il metodo dell'Auto-Scan per determinare il contributo alla sezione d'urto adronica del termine di interferenza γZ^0 utilizzando il formalismo Matrice S [62,66].

Il mio lavoro è stato riconosciuto all'interno del gruppo con la presentazione dei miei risultati in tutte le pubblicazioni e/o partecipazioni a conferenze di DELPHI a partire dall'estate 1996 [43, 44,2120,2318,2319]. Durante il 1996, il 1997, il 1998 e il 1999 ho continuato questa analisi studiando i dati raccolti da DELPHI a 161, 172 GeV (1996) [45,46,48,50,2120,2320,2321], a 130, 136 e 183 GeV (1997) [47,49,52], a 189 GeV (1998) [53–55,2170], a 192, 196, 200 e 202 GeV (1999) [56–58] e a 205, 206 e 207 GeV (2000) [59–61,2323,2324].

Oltre ad aver contribuito alle misure di sezione d'urto adronica, mi sono occupato della determinazione del contributo alla sezione d'urto del termine di interferenza γ/Z utilizzando il formalismo Matrice S e i dati raccolti da DELPHI dal picco della Z fino a 207 GeV, e partecipato ai lavori del LEP Electro-Weak Working Group in vista della pubblicazione delle medie LEP dei risultati di ALEPH, DELPHI, L3 ed OPAL relativi a queste misure [68–71,2209].

Ho inoltre partecipato allo studio dei limiti a possibili Interazioni di Contatto, utilizzando i dati raccolti da DELPHI, ed in generale dai quattro esperimenti LEP sull'annichilazione e^+e^- in coppie $\mu^+\mu^-$ e $\tau^+\tau^-$, misurate ad energie tra 130 e 207 GeV. Le osservabili utilizzate sono state la sezione d'urto totale e l'asimmetria *forward-backward*. Diversamente dalle più comuni

analisi unidimensionali, sono stati ottenuti limiti su coppie di parametri invece che sui parametri singoli [2304].

- ◊ Nell'ambito della mia partecipazione all'esperimento BaBar [72–74,78] per lo studio degli effetti della violazione di CP nei mesoni B [85,96], sono entrato a far parte del gruppo che si è occupato della realizzazione del rivelatore di vertice (SVT, Silicon Vertex Tracker) [501–522].

Durante i mesi di luglio ed agosto 1995 ho partecipato alla realizzazione e test di una serie di telescopi di rivelatori a microstrip di silicio utilizzati durante i test su fascio dei rivelatori BaBar SVT (e DELPHI STIC) [3]. Ho seguito in particolare la fase di test dei circuiti ibridi di ceramica che supportavano i chip dei preamplificatori (misura e correzione dei corto-circuiti e delle interruzioni delle piste), l'incollaggio dei preamplificatori ed i successivi test di funzionamento.

Mi sono occupato inoltre del test di tutti i telescopi, contribuendo a realizzare in laboratorio una coincidenza di cosmici per valutare il rapporto segnale/rumore dei rivelatori. In questo ambito ho partecipato le fasi di disegno, realizzazione e test dei circuiti di *fanout* utilizzati per collegare i rivelatori di silicio all'elettronica di lettura [4]. Durante il 1996 e il 1997 ho seguito la produzione dei circuiti di *fanout*, occupandomi in particolare della caratterizzazione di tali circuiti e della correzione manuale degli eventuali corto-circuiti [2302]; sono stato inoltre nominato responsabile locale della gestione del *database* dei *fanout* del rivelatore di vertice. Ho inoltre studiato gli effetti del campo magnetico sulle prestazioni dell'SVT (efficienza e risoluzione spaziale) [5].

Ho partecipato all'analisi dei dati raccolti da BaBar per lo studio del canale di decadimento dei mesoni B neutri in $D^{*+}D^{*-}$, misurando i contributi CP -pari e CP -dispari all'ampiezza totale del processo, attraverso lo studio delle distribuzioni angolari dei prodotti del decadimento [6–8, 91,116]. Infatti, essendo il processo $B^0 \rightarrow D^{*+}D^{*-}$ un decadimento di un mesone pseudo-scalare in due mesoni vettori, l'ampiezza totale può essere espressa in uno sviluppo in onde parziali come la somma di tre contributi (S , P e D), che hanno diversa CP -parità (pari per le onde S e D , dispari per l'onda P). L'analisi angolare permette di separare e misurare i diversi contributi, fase preliminare indispensabile per lo studio dell'asimmetria di CP dipendente dal tempo per questo processo. La prima misura dell'asimmetria in questo canale di decadimento ha dato un risultato limitato dalla precisione statistica, ma non da quella sistematica, e destinato quindi a migliorare se l'analisi verrà ripetuta utilizzando l'intero campione di dati raccolto dall'esperimento.

Ho sfruttato le conoscenze e le tecniche acquisite durante questo lavoro applicandole successivamente alla misura del rapporto di diramazione del decadimento $B^0 \rightarrow D^{*-}\ell^+\nu_\ell$, con l'obiettivo di effettuare in seguito una misura dell'elemento $|V_{cb}|$ della matrice di Cabibbo-Kobayashi-Maskawa (CKM) [9–19,170,352].

Nel meccanismo descritto dal Modello Standard delle interazioni elettro-deboli, la matrice CKM descrive il mescolamento dei sapori tra i quark e determina l'intensità dei processi che violano CP , attraverso una singola fase non nulla. L'elemento della matrice V_{cb} misura l'accoppiamento debole tra i quark b e c . Il suo modulo, $|V_{cb}|$, definisce la lunghezza della base di un triangolo che rappresenta una delle condizioni di unitarietà della matrice CKM e quindi fornisce la normalizzazione del triangolo stesso.

- ◊ Dalla fine del 1998 a tutto il 2000 sono stato responsabile della creazione e del mantenimento del database utilizzato in DELPHI per descrivere lo stato dei vari sotto-rivelatori durante la presa dati ed indispensabile per la selezione dei periodi utili alle analisi di fisica (per esempio: [2012, 2077,2079,2082,2095,2120,2139,2162,2163,2170]).
- ◊ A partire dal 2001 ho partecipato ad attività di sviluppo software legate alla produzione Monte Carlo, all'analisi ed al riprocessamento dei dati di BaBar delle farm Linux di Roma e Padova,

attività che ho seguito fino alla fine del 2005 in qualità di responsabile italiano della produzione Monte Carlo per l'esperimento BaBar.

- ◊ Nel 2004 e nel 2005 ho coordinato il *review committee* interno a BaBar sull'analisi *Measurement of time-dependent CP asymmetries and constraints on $\sin(2\beta+\gamma)$ with partial reconstruction of $B \rightarrow D^{*\mp}\pi^\pm$ decays* [214].
- ◊ Dal giugno 2005 faccio parte della collaborazione CMS al CERN, e sono responsabile scientifico del gruppo CMS di Trieste (link). Le attività del gruppo si sviluppano principalmente sul fronte dell'integrazione degli strumenti per il calcolo distribuito di CMS in LHC GRID, della simulazione dell'esperimento CMS, dello studio del calorimetro elettromagnetico di CMS e della realizzazione di un nuovo rivelatore per la misura del tempo di volo di particelle al minimo di ionizzazione (MIP) di CMS, a cui si aggiunge l'attività di analisi dati di fisica. A Trieste attualmente coordino il lavoro di 5 colleghi, tra ricercatori appartenenti alla Sezione di Trieste dell'INFN, ricercatori, dottorandi e laureandi dell'Università degli Studi di Trieste. Nel corso degli anni hanno fatto parte del gruppo circa 30 persone.
- ◊ Da giugno 2005 a dicembre 2010 ho coordinato il gruppo responsabile dello sviluppo del software di *monitoring online* ed *offline* della qualità dei dati del calorimetro elettromagnetico ECAL [537–539,2003–2006] di CMS [523–527].

Il rivelatore ECAL è un calorimetro ermetico ed omogeneo costituito da 61200 (2×7324) cristalli scintillanti di tungstato di piombo, PbWO_4 , nella parte di *barrel* (*endcap*). Il disegno di ECAL è stato guidato dalle richieste dettate dal canale di decadimento $H \rightarrow \gamma\gamma$, il principale canale per la ricerca di un bosone di Higgs 'leggero' ($m_H < 130 \text{ GeV}/c^2$), che richiede ottime risoluzione angolare ed energetica, per ottenere le quali è necessario monitorare le prestazioni del rivelatore con grande precisione [20,21,23–25,647–651,653,654,657,658,713,770,773,789,806,853,854].

La scelta dei cristalli di PbWO_4 ha permesso di costruire un calorimetro compatto, alloggiato all'interno del solenoide dell'esperimento, con una granularità fine, e resistente alla radiazione. Un rivelatore di pre-sciame è posizionato davanti ai cristalli del calorimetro per una buona parte dell'intervallo di pseudorapidità degli *endcap*. I suoi elementi attivi sono costituiti da due piani di rivelatori a strip di silicio, posti dietro a due piani assorbitori di piombo.

In questo campo, ho avuto la responsabilità dello sviluppo di un sistema di controllo della qualità dei dati raccolti presso il sito di integrazione dell'elettronica del calorimetro, i siti di test con raggi cosmici e con elettroni, e presso il sito di installazione di CMS [2328,2329]. Ho continuato questo lavoro nel corso del 2008, durante la fase di installazione e messa a punto del calorimetro, e l'inizio della presa dati dell'esperimento CMS, sviluppando il sistema tuttora in uso presso l'esperimento [2330].

- ◊ Nel corso del 2007 ho partecipato al gruppo di lavoro responsabile della progettazione del centro di controllo ed analisi di CMS al CERN [22].
- ◊ Ad aprile 2007 sono diventato responsabile della gestione dei fondi dell'Università degli Studi di Trieste destinati ad un assegno di ricerca sul tema "Fisica di LHC: studio e sviluppo di metodologie per l'analisi di fisica dei dati dell'esperimento CMS in ambiente di calcolo Grid";
- ◊ Da giugno 2008 a settembre 2010 ho coordinato il gruppo responsabile dello sviluppo del software di *monitoring online* e *offline* della qualità dei dati dell'esperimento CMS [523–527], dirigendo le attività svolte nei gruppi di tutti i sotto-rivelatori e definendo le procedure e strategie tuttora utilizzate.

- ◇ Da marzo 2010 a dicembre 2012 sono stato coordinatore scientifico nazionale e responsabile per l'unità di ricerca di Trieste del progetto PRIN 2008: "Progetto e sviluppo di un ambiente hardware e software ottimizzato per l'analisi dei dati dell'esperimento CMS" (Bari, Milano Bicocca, Pisa, Trieste) [2306].

- ◇ Dal 2011 partecipo alla misura della produzione associata di un bosone Z e getti adronici in collisioni protone-protone in CMS [28–31,629,894].

Lo studio degli stati finali W+getti e Z+getti, in cui i bosoni vettori sono rivelati attraverso i loro decadimenti leptonici, fornisce un'importante verifica del Modello Standard, uno strumento per la messa a punto del rivelatore attraverso la fisica, e soprattutto una sonda sensibile ad effetti di nuova fisica nelle collisioni ad alta energia.

Nel contesto del Modello Standard, lo studio dei getti adronici prodotti in associazione con i bosoni W e Z permette la verifica dei calcoli di QCD perturbativa. Al *leading order* (LO) e al *next-to-leading order* (NLO) le previsioni sono in buon accordo con i dati, ma questi i calcoli sono noti solo con una precisione che varia dal 10% al 30%, a causa delle incertezze sulle funzioni di distribuzione partonica e della natura perturbativa dei calcoli.

Molte estensioni del Modello Standard prevedono nuove particelle con accoppiamenti elettrodeboli che decadono in bosoni di gauge del Modello Standard accompagnati da getti adronici, dalla supersimmetria alla produzione di bosoni pesanti W' e Z', a bosoni di Higgs carichi e altre. Gli stati finali W+getti e Z+getti sono fondi importanti per tutte queste ricerche, e per gli studi del quark top.

- ◇ Nel corso del 2011 ho coordinato il *CMS Physics Validation Team*, con il compito di certificare la catena completa di analisi, dal software offline alle condizioni dei rivelatori, alle configurazioni usate dai programmi di ricostruzione dei dati al Tier0 del CERN, di re-ricostruzione dei dati ai Tier1 nazionali, e di produzione di campioni simulati Monte Carlo, in relazione alle funzionalità ed alle prestazioni richieste per conseguire gli obiettivi di fisica di CMS.
- ◇ Tra il 2011 e il 2012 ho fatto parte del gruppo di *referee* dell'INFN sulle attività del consorzio IGI (*Italian Grid Initiative*, [link](#)).
- ◇ Da febbraio 2013 a marzo 2016 sono stato responsabile per l'unità di ricerca di Trieste del progetto PRIN 2010/11: "Sviluppo di tecnologie per l'ottimizzazione dell'accesso ai dati di LHC, trasferibili ad altri domini scientifici, mediante l'approccio del grid e del cloud computing" (Bari, Bologna, Cagliari, Catania, Genova, INFN, Perugia, Milano, Napoli, Roma, Torino, Trieste) [2307,2308].
- ◇ Nel 2012 ho fatto da *referee* esterno per il Gruppo di Esperti della Valutazione dell'area Fisica nell'ambito del processo di valutazione VQR 2004-2010 condotto dall'Agenzia Nazionale per la Valutazione del sistema Universitario e della Ricerca.
- ◇ Nel 2012 ho fatto da *referee* esterno per l'esame finale del dottorato di ricerca in Fisica (XXIII ciclo) presso l'Università degli Studi di Firenze.
- ◇ Nel 2012 e nel 2015 ho fatto da *referee* esterno per la valutazione per l'Università degli Studi di Padova.
- ◇ Dal 2013 sono *referee* per Computer Physics Communications ([link](#)).
- ◇ Nel 2013 ho fatto parte della Commissione di Preselezione PRIN 2012 dell'Università degli Studi di Trieste.

- ◇ Dal 2013 partecipo alla misura della produzione associata di un bosone Z e almeno un getto adronico prodotto da un quark b in collisioni protone-protone in CMS [32,34,36,1111]

L'importanza di questo processo fisica deriva dalla comprensione dei calcoli di QCD perturbativa per il contenuto di quark b all'interno del protone e come questo quark viene estratto nelle collisioni. In questo modo, la fisica $Z+b$ può essere utilizzata per molte misure importanti del Modello Standard, come l'asimmetria di polarizzazione $Z+b$ e la descrizione del fondo al processo $H \rightarrow b\bar{b}$. Inoltre, molti scenari di nuova fisica prevedono nuove particelle che decadono in $Z+b$ o producono un aumento della sezione d'urto nel canale $Z+b$, e per queste ragioni questo processo è considerato come uno dei più promettenti stati finali del Modello Standard ad essere utilizzato nelle ricerche a LHC.

- ◇ Dal 2014 partecipo alla misura della produzione associata di un bosone W e getti adronici prodotti da quark b in collisioni protone-protone in CMS [33,35,1081].
- ◇ Nel 2014 ho fatto parte della Commissione di Valutazione dei progetti di Ateneo FRA 2010 per il Dipartimento di Fisica dell'Università degli Studi di Trieste.
- ◇ Nel 2016 ho fatto da *referee* esterno per il Gruppo di Esperti della Valutazione dell'area Fisica nell'ambito del processo di valutazione VQR 2011-2014 condotto dall'Agenzia Nazionale per la Valutazione del sistema Universitario e della Ricerca.
- ◇ Dal 2016 sono *referee* per Nuclear Instruments and Methods in Physics Research Section A (link) e per Journal of Instrumentation (link).
- ◇ Nel 2017 ho fatto da *referee* esterno per la valutazione di progetti di ricerca per l'Università degli Studi di Roma - Tor Vergata.
- ◇ A dicembre 2017 sono risultato beneficiario di un finanziamento FFARB 2017 con un punteggio di 100/100.
- ◇ Dal 2018 partecipo alla misura della sezione d'urto di produzione $W\gamma\gamma$ e $Z\gamma\gamma$, ed alla definizione di limiti a possibili accoppiamenti di gauge anomali tripli e quadrupli [37,38,1598].
- ◇ Sono autore o coautore di oltre 2100 pubblicazioni scientifiche su riviste internazionali, con un indice di Hirsch $h = 144$ (fonte: <http://www.researcherid.com/rid/B-6826-2013>).

Tecniche impiegate nello svolgimento dell'attività di ricerca.

- ◇ Ho preso parte ad ogni fase dell'analisi dei dati ottenuti durante i test su fascio del calorimetro STIC [2282-2298,2316,2317]. Ho partecipato allo sviluppo del *monitor online* per la parte riguardante i rivelatori di silicio. Ho realizzato il programma di ricostruzione geometrica delle tracce incidenti sul rivelatore a partire dalle informazioni fornite dalle camere a fili del telescopio e studiato le disuniformità nella risposta del rivelatore.
- ◇ Ho utilizzato tecniche di simulazione tramite metodi Monte Carlo, ed in particolare il pacchetto GEANT, per studiare la risposta del calorimetro STIC in termini di risoluzione energetica, di linearità e di risoluzione in posizione del punto d'impatto delle particelle incidenti. Ho analizzato ed ottimizzato le prestazioni dei rivelatori di silicio contenuti nel calorimetro, sviluppando algoritmi per la ricostruzione della posizione del centro dello sciame elettromagnetico [64].
- ◇ Nel corso delle mie diverse attività ho avuto modo di acquisire competenze nei linguaggi di programmazione Assembler, FORTRAN, C, C++ e Perl, in ambiente OpenVMS, OSF/1, Digital UNIX, HP-UX, AIX, Mac OS X, Windows 98 e Linux, e di linguaggi HTML e Php per lo sviluppo di pagine Web.

Attività didattica.

- ◇ Durante l'A.A. 1998/1999 ho tenuto, presso il Dipartimento di Fisica dell'Università degli Studi di Trieste, un corso integrativo con esercitazioni pratiche, intitolato *Introduzione al FORTRAN con elementi di programmazione e tecniche di analisi dati con HBOOK/PAW*, nell'ambito del corso di Esperimentazioni di Fisica III per il corso di laurea in Fisica.
- ◇ Durante l'A.A. 1999/2000 ho tenuto, presso la Facoltà di Ingegneria dell'Università degli Studi di Trieste, le esercitazioni di Fisica Generale I per i corsi di laurea in Ingegneria.
- ◇ Durante l'A.A. 2000/2001 ho contribuito, presso la Facoltà di Scienze Matematiche, Fisiche e Naturali dell'Università degli Studi di Trieste, alle esercitazioni del corso di Ottica e a quelle del corso di Esperimentazioni di Fisica II-B (Laboratorio di Ottica) per il corso di laurea in Fisica.
- ◇ Durante gli A.A. 2001/2002, 2002/2003 e 2003/2004 sono stato titolare per supplenza del corso trimestrale di Laboratorio di Ottica per il corso di laurea in Fisica, presso la Facoltà di Scienze Matematiche, Fisiche e Naturali dell'Università degli Studi di Trieste.
- ◇ Durante gli A.A. 2004/2005 sono stato titolare per affidamento del corso trimestrale di Laboratorio di Ottica per il corso di laurea in Fisica, presso la Facoltà di Scienze Matematiche, Fisiche e Naturali dell'Università degli Studi di Trieste.
- ◇ Durante gli A.A. 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2009/2010, 2010/2011 e 2011/20-12 sono stato titolare per affidamento del corso di Laboratorio III per il corso di laurea in Fisica, presso la Facoltà di Scienze Matematiche, Fisiche e Naturali dell'Università degli Studi di Trieste.
- ◇ Durante gli A.A. 2012/2013, 2013/2014, 2014/2015, 2015/2016, 2016/2017, 2017/2018, 2018/20-19, 2019/2020, 2020/2021, 2021/2022, 2022/2023 sono stato titolare per affidamento del corso di Laboratorio III per il corso di laurea in Fisica, presso il Dipartimento di Fisica dell'Università degli Studi di Trieste.
- ◇ Durante gli A.A. 2017/2018 e 2018/2019 sono stato co-titolare per affidamento del corso di Introduzione alla Fisica Nucleare e Subnucleare per il corso di laurea in Fisica, presso il Dipartimento di Fisica dell'Università degli Studi di Trieste.
- ◇ L'attività didattica frontale complessivamente svolta nell'ambito del corso di Laboratorio III corrisponde al seguente numero di ore: 189 (2006/2007), 200 (2007/2008), 230 (2008/2009), 161 (2009/2010), 220 (2010/2011), 170 (2011/2012), 140 (2012/2013), 150 (2013/2014), 171 (2014/2015), 175 (2015/2016), 214 (2016/2017), 225 (2017/2018), 210 (2018/2019), 120 (2019/20-20), 250 (2020/2021), 212 (2021/2022), 210 (2022/2023), 205 (2023/2024), 160 (2024/2025).
- ◇ L'attività didattica frontale complessivamente svolta nell'ambito del corso di Introduzione alla Fisica Nucleare e Subnucleare corrisponde al seguente numero di ore: 17 (2017/2018), 16 (2018/2019).
- ◇ Il corso di Laboratorio III ha ottenuto i seguenti giudizi nella valutazione della qualità della didattica da parte degli studenti, per quanto riguarda il livello complessivo dell'insegnamento: 8.34/10 (2006/2007), 7.33/10 (2007/2008), 7.00/10 (2008/2009), 7.69/10 (2009/2010), 8.11/10 (2010/2011), 8.32/10 (2011/2012), 8.95/10 (2012/2013), 8.63/10 (2013/2014), 9.19/10 (2014/20-15), 9.04/10 (2015/2016), 9.21/10 (2016/2017), 8.40/10 (2017/2018), 8.72/10 (2018/2019), 9.03/10 (2019/2020), 8.68/10 (2020/2021), 9.03/10 (2021/2022), 8.24/10 (2022/2023), 8.99/10 (2023/2024), 8.56/10 (2024/2025).

- ◊ Ho partecipato alle commissioni d'esame di Laboratorio di Ottica (prima come commissario, ed in seguito come presidente), di Laboratorio III, di Fisica Generale II-B del corso di laurea triennale in Fisica, e di Missioni e Strumentazione per lo Spazio del corso di laurea specialistica in Astrofisica e Fisica Spaziale (Facoltà di Scienze Matematiche, Fisiche e Naturali), di Fisica del corso di laurea in Biotecnologie (Facoltà di Medicina e Chirurgia), e di Introduzione alla Fisica Nucleare e Subnucleare, nonché a numerose commissioni di laurea, sia triennale che magistrale, anche in qualità di presidente.
- ◊ Dall'A.A. 2006/2007 propongo e seguo attività di tirocinio nell'ambito dell'ultimo anno del corso di laurea triennale in Fisica dell'Università degli Studi di Trieste.

Attività di relatore di tesi di laurea e dottorato.

- ◊ Durante l'A.A. 2001/2002 sono stato correlatore della tesi di laurea triennale in fisica: *La misura del $BR(B^0 \rightarrow D^* l \nu)$: determinazione del rapporto relativo di D^* e D^{**}* (candidato: F. Saitta).
- ◊ Durante l'A.A. 2002/2003 sono stato correlatore di una tesi di laurea in fisica: *L'effetto dei parametri HQET nella misura del processo $B^0 \rightarrow D^* l \nu$* (candidato: M. Bomben), e relatore di una tesi di laurea triennale in fisica: *La misura del $BR(B^0 \rightarrow D^* l \nu)$: una possibile stima del valor medio di diversi risultati sperimentali* (candidato: D. Bianco).
- ◊ Durante l'A.A. 2005/2006 sono stato relatore di due tesi di laurea triennale in fisica: *Il calorimetro elettromagnetico dell'esperimento CMS: principi di funzionamento e caratteristiche generali* (candidata: E. Bonifazi) e *Il calorimetro elettromagnetico di CMS: confronto tra dati sperimentali e simulazioni Monte Carlo* (candidato: G. Guerreschi).
- ◊ Durante l'A.A. 2006/2007 sono stato relatore della tesi di laurea triennale in fisica: *Confronto tra dati sperimentali e simulazioni Monte Carlo del calorimetro elettromagnetico dell'esperimento CMS* (candidato: G. Snidero).
- ◊ Durante l'A.A. 2007/2008 sono stato relatore di tre tesi di laurea triennale in fisica: *Una tecnica di calibrazione con elettroni isolati per il calorimetro elettromagnetico di CMS* (candidato: D. Scaini), *Risoluzione spaziale del calorimetro elettromagnetico dell'esperimento CMS* (candidato: A. Schizzi), *Studio della risposta temporale e caratterizzazione del calorimetro di PAMELA* (candidato: M. Velliscig), e di una tesi di laurea specialistica in fisica: *Studio dell'identificazione di elettroni a CMS* (candidato: L. Mucibello).
- ◊ Durante l'A.A. 2008/2009 sono stato relatore di una tesi di laurea triennale in fisica: *Studio di processi adronici in cristalli di tungstato di piombo* (candidato: M. Mantoani), e di una tesi di laurea specialistica in fisica: *Studio delle interazioni partoniche multiple nelle collisioni protone-protone ad LHC con il rivelatore CMS* (candidata: D. Montanino).
- ◊ Durante l'A.A. 2009/2010 sono stato relatore di due tesi di laurea triennale in fisica: *Simulazione di sciame elettromagnetici in cristalli di $PbWO_4$* (candidato: M. Szalay), *Caratterizzazione di eventi minimum bias in collisioni protone-protone* (candidato: T. Umer), e di una tesi di laurea magistrale in fisica: *Caratterizzazione di getti di tracce cariche come strumento di studio delle interazioni partoniche multiple in collisioni protone-protone a LHC* (candidato: G. Snidero).
- ◊ Durante l'A.A. 2010/2011 sono stato relatore di due tesi di laurea magistrale in fisica: *Studio della produzione associata di getti adronici e bosoni vettori Z e W in collisioni $p-p$ nell'esperimento CMS* (candidato: A. Schizzi), *Studio della produzione del bosone Z in associazione a getti adronici in collisioni protone-protone presso l'esperimento CMS* (candidato: D. Scaini), e di una tesi di

laurea triennale in fisica: *Studio della produzione di bosoni vettori nelle interazioni protone-protone a LHC* (candidato: A. Turcati).

- ◇ Durante l'A.A. 2011/2012 sono stato relatore di una tesi di laurea magistrale in fisica: *Misura della produzione associata di un bosone Z e di getti adronici con il rivelatore CMS a LHC* (candidato: T. Umer), e di una tesi di laurea triennale in fisica: *Esempi di deconvoluzione di distribuzioni sperimentali da effetti del rivelatore* (candidato: A. Angioi).
- ◇ Durante l'A.A. 2012/2013 sono stato relatore di due tesi di laurea triennale in fisica: *Esempi di misure di efficienza con il metodo Tag and Probe* (candidato: N. Fontana) e *Studio delle performance dell'algoritmo di tracciatura degli elettroni nell'esperimento CMS* (candidato: F. Peri).
- ◇ Durante gli A.A. 2010/2011, 2011/2012 e 2012/2013 ho svolto il ruolo di co-supervisore della dott.ssa D. Montanino, studente della Scuola di Dottorato in Fisica dell'Università degli Studi di Trieste (XXV ciclo di dottorato), nell'ambito della tesi: *Study of the associated production of a Z boson and jets in pp collisions at $\sqrt{s} = 7$ TeV at CMS*.
- ◇ Durante gli A.A. 2011/2012, 2012/2013 e 2013/2014 ho svolto il ruolo di supervisore del dott. V. Candelise, studente della Scuola di Dottorato in Fisica dell'Università degli Studi di Trieste (XXVI ciclo di dottorato, *Measurement of the associated production of a Z boson and b quarks in proton-proton collisions at $\sqrt{s} = 8$ TeV with the CMS experiment at LHC*).
- ◇ Durante gli A.A. 2012/2013, 2013/2014 e 2014/2015 ho svolto il ruolo di supervisore della dott.ssa C. La Licata e del dott. A. Schizzi, studenti della Scuola di Dottorato in Fisica dell'Università degli Studi di Trieste (XXVII ciclo di dottorato, *Measurement of the production cross section of a Z boson in association with exactly one or at least two b jets with the CMS experiment at LHC, e Associated production of W bosons and two jets from b quarks at the CMS experiment*).
- ◇ Durante l'A.A. 2013/2014 ho svolto il ruolo di co-supervisore del dott. T. Umer, studente del Corso di Dottorato di Ricerca in Fisica dell'Università degli Studi di Trieste (XXVIII ciclo di dottorato).
- ◇ Durante l'A.A. 2013/2014 sono stato relatore di una tesi di laurea magistrale in fisica: *Model-independent search of new physics in the $Z+b$ final state in pp collisions at $\sqrt{s} = 8$ TeV with the CMS experiment at LHC* (candidato: A. Turcati) e di una tesi di laurea triennale in fisica: *Caratterizzazione di un calorimetro a campionamento tungsteno-fluoruro di cerio con lettura a fibre ottiche* (candidato: F. Vazzoler).
- ◇ Durante l'A.A. 2014/2015 sono stato relatore di una tesi di laurea magistrale in fisica: *Study of the associated production of a Z boson and b jets in CMS* (candidato: F. Peri) e di due tesi di laurea triennale in fisica: *Studio di alcune caratteristiche di un prototipo di calorimetro a campionamento Tungsteno-Fluoruro di Cerio con lettura a fibre ottiche* (candidato: J. Magro), *Studio di tecniche di deconvoluzione di effetti sperimentali* (candidato: A. Da Rold).
- ◇ Durante l'A.A. 2015/2016 sono stato relatore di una tesi di laurea magistrale in fisica: *Associated production of the Higgs boson with a vector boson at the LHC: study of the CMS electromagnetic calorimeter and definition of the Run2 analysis selections* (candidata: L. Rinchiuso).
- ◇ Durante l'A.A. 2016/2017 sono stato relatore di tre tesi di laurea magistrale in fisica: *Study of the linearity of the Electromagnetic Calorimeter of the Compact Muon Solenoid experiment using J/ψ , Υ and Z resonances* (candidato: F. Vazzoler), *Measurement of the W^+W^- charge asymmetry in $W \rightarrow e\nu$ events in CMS* (candidato: A. Da Rold) e *Measurement of the Z boson transverse momentum and pseudorapidity differential cross sections* (candidato: J. Magro), e di tre tesi di

laurea triennale in fisica: *Studio di alcuni metodi di calibrazione di un calorimetro elettromagnetico* (candidato: K. de Leo), *Studio della calibrazione del calorimetro elettromagnetico di CMS con eventi $Z \rightarrow e^+ e^-$* (candidato: G. Sorrentino) e *Studio della ricostruzione di traiettorie di particelle cariche in un sistema di tracciamento tramite una retina artificiale* (candidato: A. Gabrielli).

- ◇ Durante gli A.A. 2017/2018, 2018/2019 e 2019/2020 ho svolto il ruolo di supervisore del dott. A. Da Rold e del dott. F. Vazzoler, studenti del Corso di Dottorato di Ricerca in Fisica dell'Università degli Studi di Trieste (XXXIII ciclo di dottorato, *Measurement of the $W\gamma\gamma$ production cross section in proton-proton collisions at 13 TeV with full Run2 data and limits on anomalous quartic gauge couplings* e *Measurement of the $Z\gamma\gamma$ bosons production cross section and search for new physics in proton-proton collisions at $\sqrt{s} = 13$ TeV with the CMS detector at the CERN LHC*).
- ◇ Durante l'A.A. 2017/2018 sono stato co-relatore di una tesi di laurea magistrale in fisica: *Study of the double parton scattering in proton-proton collisions at the LHC and extraction of a new data-driven tune using multi-jet measurements* (candidato: K. de Leo).
- ◇ Durante l'A.A. 2018/2019 sono stato co-relatore di una tesi di laurea magistrale in fisica: *Characterization of $Z\gamma\gamma$ and $W\gamma\gamma$ events in pp collisions at the LHC and limits on anomalous couplings* (candidato: G. Sorrentino).
- ◇ Durante gli A.A. 2019/2020, 2020/2021 e 2021/2022 ho svolto il ruolo di co-supervisore della dott.ssa G. Sorrentino, studentessa del Corso di Dottorato di Ricerca in Fisica dell'Università degli Studi di Trieste (XXXV ciclo di dottorato), *Measurement of the $Z\gamma$ production cross section in the $Z \rightarrow \nu\bar{\nu}$ channel and limits on anomalous triple neutral gauge couplings in proton-proton collisions at $\sqrt{s} = 13$ TeV with the CMS experiment at the LHC*).
- ◇ Durante l'A.A. 2021/2022 sono stato relatore di due tesi di laurea triennale in fisica: *Le funzioni di distribuzione partoniche e la misura della massa del W nel canale di decadimento leptonic in collisioni protone-protone a 13.6 TeV a LHC* (candidato: T. Pauletto) e *Misura dell'asimmetria avanti-indietro del quark b in eventi Drell-Yan a LHC* (candidato: F. Pizzati) e co-relatore di una tesi di laurea triennale in fisica: *Studio delle caratteristiche delle interazioni soffici nelle collisioni protone-protone a LHC con eventi di produzione associata di un bosone Z e getti adronici a 13.6 TeV* (candidato: A. Segalotti).
- ◇ Durante l'A.A. 2022/2023 sono stato co-relatore di una tesi di laurea triennale in fisica: *Le funzioni di distribuzione partoniche ed il loro ruolo nella fisica delle interazioni adroniche al Large Hadron Collider del CERN* (candidato: N. Piazza) e di una tesi di laurea magistrale in fisica: *Determination of the theory uncertainties on the measurement of the $Z\gamma$ production cross section in the $Z \rightarrow \nu\bar{\nu}$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV with the CMS experiment at the LHC* (candidato: R. Delli Gatti).
- ◇ Dall'A.A. 2023/2024 svolgo il ruolo di co-supervisore del dott. R. Delli Gatti, studente del Corso di Dottorato di Ricerca in Fisica dell'Università degli Studi di Trieste (XXXIX) ciclo di dottorato).
- ◇ Durante l'A.A. 2023/2024 sono stato relatore di quattro tesi di laurea triennale in fisica: *Studio dell'asimmetria di carica del bosone W in collisioni pp e p $\bar{p}$ con il generatore Pythia* (candidato: G. Masella), *Studio degli effetti del pileup su eventi Z+getti in collisioni pp con il generatore PYTHIA* (candidato: S. Battistella), *Studio dell'impatto delle PDF su eventi gamma+jet in collisioni pp a LHC con il generatore PYTHIA* (candidato: P. Favano), *Caratterizzazione di eventi W+jet in collisioni protone-protone a LHC* (candidato: S. Pivato), e di una tesi di laurea

magistrale in fisica: *Ottimizzazione di una rete neurale per la classificazione di eventi in ricerche di nuova fisica con l'esperimento CMS a LHC* (candidato: A. Segalotti), e co-relatore di una tesi di laurea magistrale in fisica: *Ricerca di nuova fisica in eventi top-antitop con tecniche di machine learning con l'esperimento CMS a LHC* (candidato: T. Pauletto).

Partecipazione a scuole e corsi.

- ◇ Ho seguito le lezioni della 4th *ICFA School on Instrumentation in Elementary Particle Physics* (20-31 maggio 1991, Trieste) e preso parte ad alcune delle esperienze di laboratorio (sulle camere proporzionali multi-fili e su un contatore operante con la tecnica RICH) presso il Centro Internazionale di Fisica Teorica (ICTP);
- ◇ Tra il 1995 e il 1996 ho frequentato le lezioni della *Ettore Majorana International School of Subnuclear Physics* (2-10 luglio 1995, Erice), dell'*VIII Seminario nazionale di fisica nucleare e sub-nucleare* (21-27 settembre 1995, Otranto), della *European School of High-Energy Physics* (1-14 settembre 1996, Carry-le-Rouet, Marsiglia, Francia) [2318].
- ◇ Durante il 1998 ho seguito un corso sul linguaggio di programmazione C++, organizzato dal Centro di Calcolo dell'Università degli Studi di Trieste (*Il linguaggio C++: corso base*, 9-18 febbraio 1998), e un corso di programmazione ad oggetti, organizzato dalla collaborazione BaBar (*Introductory Object Oriented Analysis and Design Course*, 23-27 febbraio 1998, SLAC, USA);
- ◇ Ho frequentato la *CERN School of Computing* (6-19 settembre 1998, Funchal, Madera, Portogallo).

Partecipazione a commissioni di concorso.

- ◇ Nel 2007 ho fatto parte della commissione di valutazione comparativa per la copertura di un posto di ricercatore universitario di ruolo per il settore scientifico-disciplinare FIS/01 (Fisica Sperimentale) della Facoltà di Scienze Matematiche, Fisiche e Naturali dell'Università degli Studi della Basilicata.
- ◇ Nel 2008 ho fatto parte della commissione di valutazione comparativa per la copertura di un posto di ricercatore universitario di ruolo per il settore scientifico-disciplinare FIS/01 (Fisica Sperimentale) della Facoltà di Scienze Matematiche, Fisiche e Naturali dell'Università di Bologna.
- ◇ Nel 2012, 2013, 2014 e 2023 ho fatto parte delle commissioni giudicatrici per gli esami finali del dottorato di ricerca in Fisica e Astronomia (XXIV, XXV, XXVII, XXXV ciclo) presso l'Università degli Studi di Milano-Bicocca.
- ◇ Nel 2013 ho fatto parte della commissione per l'ammissione al dottorato di ricerca in Fisica (XXIX ciclo) presso l'Università degli Studi di Trieste.
- ◇ Nel 2014 ho fatto parte della commissione giudicatrice per l'esame finale del dottorato di ricerca in Matematica e Fisica (XXVI ciclo) presso l'Università degli Studi di Udine.
- ◇ Nel 2017 ho fatto parte della commissione giudicatrice per la procedura selettiva per due posti di ricercatore a tempo determinato, ai sensi dell'art. 24, comma 3, lettera a) della Legge 240/2010, per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali, settore scientifico-disciplinare FIS/01 - Fisica Sperimentale, presso il Dipartimento di Fisica dell'Università degli Studi di Trieste.

- ◊ Nel 2017 ho fatto parte della commissione per l'ammissione al dottorato di ricerca in Fisica (XXXIII ciclo) presso l'Università degli Studi di Trieste.
- ◊ Nel 2018 ho fatto parte della commissione giudicatrice per la procedura selettiva per un posto di ricercatore a tempo determinato, ai sensi dell'art. 24, comma 3, lettera b) della Legge 240/2010, per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali, settore scientifico-disciplinare FIS/01 - Fisica Sperimentale, presso il Dipartimento di Fisica dell'Università degli Studi di Milano-Bicocca.
- ◊ Nel 2018 ho fatto parte della commissione giudicatrice per la procedura selettiva per un posto di ricercatore a tempo determinato, ai sensi dell'art. 24, comma 3, lettera b) della Legge 240/2010, per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali, settore scientifico-disciplinare FIS/01 - Fisica Sperimentale, presso il Dipartimento di Fisica dell'Università degli Studi di Trieste.
- ◊ Nel 2019 ho fatto parte della commissione giudicatrice per la procedura selettiva per un posto di ricercatore a tempo determinato, ai sensi dell'art. 24, comma 3, lettera a) della Legge 240/2010, per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali, settore scientifico-disciplinare FIS/01 - Fisica Sperimentale, presso il Dipartimento di Scienze Matematiche, Informatiche e Fisiche dell'Università di Udine.
- ◊ Nel 2019 ho fatto parte della commissione giudicatrice per l'ammissione al Collegio Universitario Luciano Fonda - Laurea Magistrale in Fisica per l'A.A. 2019/2020.
- ◊ Tra il 2019 e il 2020 ho fatto parte della commissione giudicatrice per la procedura selettiva per un posto di ricercatore a tempo determinato, ai sensi dell'art. 24, comma 3, lettera b) della Legge 240/2010, per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali, settore scientifico-disciplinare FIS/01 - Fisica Sperimentale, presso il Dipartimento di Fisica dell'Università degli Studi di Milano-Bicocca.
- ◊ Nel 2020 ho fatto parte della commissione giudicatrice per la procedura selettiva per un posto di ricercatore a tempo determinato, ai sensi dell'art. 24, comma 3, lettera a) della Legge 240/2010, per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali, settore scientifico-disciplinare FIS/01 - Fisica Sperimentale, presso il Dipartimento di Scienze Matematiche, Informatiche e Fisiche dell'Università di Udine.
- ◊ Nel 2022 ho fatto parte della commissione giudicatrice per la procedura selettiva per un posto di ricercatore a tempo determinato, ai sensi dell'art. 24, comma 3, lettera a) della Legge 240/2010, per il settore concorsuale 02/A1 - Fisica Sperimentale delle Interazioni Fondamentali, settore scientifico-disciplinare FIS/01 - Fisica Sperimentale, presso il Dipartimento di Fisica e Astronomia dell'Università di Bologna.

Conferenze.

- ◊ Nel 1994 ho presentato al LXXX Congresso Nazionale della Società Italiana di Fisica (Lecce, 26 settembre - 1 ottobre 1994) una relazione su: *I rivelatori di silicio del calorimetro a piccolo angolo STIC di DELPHI* [2316].
- ◊ Ho partecipato al 7th European Symposium on Semiconductor Detectors (Schloss Elmau, Germania, 7-10 Maggio 1995) con il contributo: *New Technology for Shower Maximum Silicon Detectors for Shashlik Calorimeters* [2317].
- ◊ Ho seguito i lavori di PadLEP, VII Incontro sulla Fisica a LEP (Padova, 9-11 aprile 1996).

- ◊ Al LXXXII Congresso Nazionale della Società Italiana di Fisica (Verona, 23-28 settembre 1996) ho illustrato la relazione: *Misura della sezione d'urto adronica, parametri della Z^0 e interferenza γZ^0 a LEP130* [2319].
- ◊ Sono stato invitato a PiLEP, IX Incontro sulla Fisica a LEP (Pisa, 2-4 aprile 1997), dove ho presentato i risultati ottenuti a LEP2 nel canale $e^+e^- \rightarrow \gamma/Z^0 \rightarrow q\bar{q}$ (γ): *Misure di sezione d'urto adronica a LEP2* [2320].
- ◊ Ho partecipato al 1997 Joint April APS/AAPT Meeting dell'American Physical Society (Washington, USA, 18-21 aprile 1997) presentando un contributo su: *DELPHI Measurements of Fermion-Pair Production at LEP2 Energies* [2321].
- ◊ Ho illustrato i risultati delle ricerche compiute nell'ambito della tesi di dottorato in un seminario presso il Dipartimento di Fisica dell'Università degli Studi di Trieste (Trieste, 4 febbraio 1998), dal titolo: *Determinazione della sezione d'urto per il processo $e^+e^- \rightarrow q\bar{q}(\gamma)$ a LEP1.5 e LEP2 in DELPHI* [2].
- ◊ Ho partecipato a NaLEP, X Incontro sulla Fisica a LEP (Napoli, 15-17 aprile 1998).
- ◊ Sono stato invitato a rappresentare la Sezione INFN di Trieste al II Workshop INFN sul Software e Calcolo Moderno (Perugia, 15-17 giugno 1998).
- ◊ Ho partecipato ai XXXIV Rencontres de Moriond, QCD and High Energy Hadronic Interactions (Les Arcs, France, 20-27 aprile 1999), dove ho presentato un contributo su invito dal titolo: *Precision Tests of the Standard Model* [2322].
- ◊ Ho partecipato a MiLEP, XI Incontro sulla Fisica a LEP (Milano, 7-9 aprile 1999).
- ◊ Ho fatto parte del comitato organizzatore di *LEP Trieste, XII Incontro sulla Fisica al LEP* (Trieste, 26-28 aprile 2000), e sono stato responsabile della realizzazione del relativo sito Web (link).
- ◊ Sono stato invitato a partecipare a ICHEP2000 - XXX International Conference on High Energy Physics (Osaka, Giappone, 27 luglio-2 agosto 2000), presentando un contributo su: *Preliminary Measurements and Interpretations of Fermion-Pair Production in e^+e^- Annihilations up to LEP2 Highest Energies* [2323].
- ◊ Sono stato invitato a partecipare alla DPF2000 Conference (Columbus, Ohio, 9-12 agosto 2000), presentando un contributo su: *Preliminary Measurements of the Quark-AntiQuark Production Cross-Section in e^+e^- Annihilations up to LEP2 Highest Energies* [2324].
- ◊ Sono stato invitato a presentare alla Commissione Scientifica Nazionale 1 (Lecce, 22-26 settembre, 2003) un contributo su: *BaBar: risultati di fisica e prospettive* [2325].
- ◊ Sono stato invitato a partecipare alla Beauty 2003 Conference (Pittsburgh, Pennsylvania, 14-18 ottobre 2003), presentando un contributo su: *Semileptonic Branching Ratios and Moments* [2326].
- ◊ Ho fatto parte del comitato organizzatore del *V_{xb} Workshop 2003: A workshop on semileptonic and radiative B decays* (SLAC, USA, 12-13 dicembre, 2003, link).
- ◊ Sono stato invitato a presentare alla HEP2005 International Europhysics Conference on High Energy Physics (Lisbona, Portogallo, 21-27 luglio, 2005) un contributo su: *Inclusive $|V_{ub}|$ Measurements from BaBar* [2327].

- ◊ A luglio 2006 ho organizzato la riunione annuale dei membri italiani della collaborazione CMS: *CMS Italia 2006* (Trieste, 13-14 luglio, 2006).
- ◊ Sono stato invitato a partecipare a IPRD-06, 10th Topical Seminar on Innovative Particle and Radiation Detectors (Siena, 1-5 ottobre, 2006), presentando un contributo su: *Data Quality Monitoring for the CMS Electromagnetic Calorimeter* [2328].
- ◊ Sono stato invitato a presentare alla CHEP07 International Conference on Computing in High Energy and Nuclear Physics (Victoria, Canada, 2-7 settembre, 2007) un contributo su: *Data Quality Monitoring for the CMS Electromagnetic Calorimeter* [2330].
- ◊ Ho fatto parte del comitato organizzatore di *Physics @ UniTS, la ricerca in fisica nell'Università di Trieste* (Trieste, 19-20 giugno 2008), presentando un contributo su: *B-Factory, Tevatron, LHC: recent discoveries and future challenges in experimental particle physics* [2331].
- ◊ Sono stato invitato a presentare alla 2011 IEEE Nuclear Science Symposium and Medical Imaging Conference (Valencia, Spagna, 23-29 ottobre, 2011) un contributo su: *Performance of the CMS Electromagnetic Calorimeter at the LHC* [2332].
- ◊ Ho fatto parte del comitato organizzatore del *CMS Computing and Offline Workshop* (Trieste, 24-27 luglio, 2012, [link](#)).
- ◊ Ho guidato il comitato organizzatore della riunione dei membri della comunità che lavora sul calorimetro elettromagnetico di CMS: *ECAL Days 2014* (Trieste, 17-19 giugno, 2014, [link](#)).
- ◊ Ho fatto parte dei comitati organizzatori delle riunioni: *ECAL Days 2016* (Lione, 27-28 ottobre, 2016, [link](#)), *ECAL Days 2017* (Lisbona, 9-10 ottobre, 2017, [link](#)), *ECAL Days 2019* (Zurigo, 21-23 maggio, 2019, [link](#)).
- ◊ Ho presieduto il comitato organizzatore di *IFAE 2017, XVI Incontri di Fisica delle Alte Energie* (Trieste, 19-21 aprile, 2017, [link](#)), ed in qualità di editore ho curato la pubblicazione degli atti della conferenza [2315].
- ◊ Ho fatto parte del comitato scientifico di *IFAE 2018, XVII Incontri di Fisica delle Alte Energie* (Milano, 4-6 aprile, 2018, [link](#)).
- ◊ Ho fatto parte del comitato scientifico di *IFAE 2019, XVIII Incontri di Fisica delle Alte Energie* (Napoli, 8-10 aprile, 2019, [link](#)).
- ◊ Ho fatto parte del comitato scientifico di *IFAE 2020, XIX Incontri di Fisica delle Alte Energie* (Catania, 15-17 aprile, 2020, [link](#)).
- ◊ Ho fatto parte del comitato scientifico di *IFAE 2023, XIX Incontri di Fisica delle Alte Energie* (Catania, 12-14 aprile, 2023, [link](#)).
- ◊ Ho fatto parte del comitato scientifico di *IFAE 2024, XX Incontri di Fisica delle Alte Energie* (Firenze, 3-5 aprile, 2024, [link](#)).

Attività di divulgazione scientifica.

- ◊ Dal 2003 al 2014 ho partecipato come organizzatore ed in alcuni casi come accompagnatore alle visite guidate ai laboratori del CERN di Ginevra di gruppi di studenti del corso di laurea in Fisica dell'Università degli Studi di Trieste.

- ◇ Durante il 2006 ho organizzato una serie di seminari a carattere divulgativo sulla fisica ad LHC e sull'esperimento CMS: "La frontiera della fisica delle particelle" (dott. R. Tenchini, INFN Pisa), "LHC e il computing: una sfida" (dott. P. Elmer, Princeton University), "CMS, un rivelatore innovativo per LHC" (prof. M. Paganoni, Università di Milano Bicocca), "La fisica del primo anno a LHC" (dott. T. Boccali, Scuola Normale, Pisa), "Il rivelatore CMS al Large Hadron Collider" (prof. L. Rolandi, CERN).
- ◇ Dal 2011 partecipo all'organizzazione dell'evento formativo annuale "International MasterClasses - Hands on Physics".
- ◇ Nel 2012 ho fatto un intervento a "Radio ad occhi aperti" sui recenti risultati della ricerca del bosone di Higgs (Radio RAI 3 FVG, 24 luglio 2012, Trieste).
- ◇ Nel 2013 ho tenuto una conferenza pubblica su "Alle origini della materia: cos'è il bosone di Higgs ?" all'ottava edizione della mostra interattiva Imparare Sperimentando (Pordenone, 1 febbraio 2013, [link](#)).
- ◇ Nel 2013 ho fatto un intervento a "Radio ad occhi aperti" sulla ricerca del bosone di Higgs (Radio RAI 3 FVG, 11 febbraio 2013, Trieste).
- ◇ Nel 2013 ho tenuto una conferenza su "L'origine della massa. Il bosone di Higgs" al XLII Seminario Scientifico Matematico dell'Università Popolare di Trieste (15 febbraio 2013, Trieste).
- ◇ Nel 2016 ho tenuto una lezione su "Il bosone di Higgs: dove, come e perché è così importante" al Liceo Scientifico Grigoletti di Pordenone (14 maggio 2016, Pordenone).

ELENCO DELLE PUBBLICAZIONI

Tesi di Laurea

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Tesi di Dottorato

- [2] G. Della Ricca, (1 author); Determinazione della sezione d'urto per il processo $e^+e^- \rightarrow q\bar{q}(\gamma)$ a LEP 1.5 e LEP 2 in DELPHI, PhD Thesis, Università degli Studi di Trieste, Italy, December 3, 1997.

Note BaBar

- [3] M. Bari *et al.*, (41 authors); Results from the BaBar Silicon Vertex Tracker test beam, SLAC BaBar Note # 278.
- [4] G. Della Ricca *et al.*, (5 authors); Specifications of the BaBar SVT fanouts, SLAC BaBar Note # 376.
- [5] G. Della Ricca *et al.*, (2 authors); Effect of magnetic field sign on the BaBar Silicon Vertex Tracker, SLAC BaBar Note # 442.
- [6] G. Della Ricca *et al.*, (8 authors); A study of the transversity amplitudes in the $B^0 \rightarrow D^{*+}D^{*-}$ decays, BaBar Analysis Document #223.
- [7] G. Della Ricca *et al.*, (8 authors); Measurement of the branching ratio and transversity $R_{\perp}$ for the decay $B^{\pm} \rightarrow D^{*\pm}D^{*0}$, BaBar Analysis Document #252.
- [8] G. Della Ricca *et al.*, (8 authors); Measurement of the branching fraction for the decay $B^0 \rightarrow D^{*\pm}D^{\mp}$, BaBar Analysis Document #274.
- [9] C. Borean *et al.*, (5 authors); A Measurement of the $B^0 \rightarrow D^*l\nu$ Branching Ratio using the 2001 Data Sample, SLAC BaBar Note #457.
- [10] M. Bomben *et al.*, (7 authors); Determination of $|V_{cb}|$ from the decay $\bar{B}^0 \rightarrow D^{*+}\ell^-\bar{\nu}_{\ell}$, SLAC BaBar Note #532.
- [11] C. Borean *et al.*, (5 authors); A Measurement of the $B^0 \rightarrow D^*l\nu$ Branching Ratio using the 2000 Data Sample, SLAC BaBar Note #546.
- [12] C. Borean *et al.*, (5 authors); A Measurement of the $B^0 \rightarrow D^*l\nu$ Branching Ratio using the 2002 Data Sample, SLAC BaBar Note #547.
- [13] C. Borean *et al.*, (5 authors); Averages of the Measurements of the $B^0 \rightarrow D^*l\nu$ Branching Ratio using the 2000/2001/2002 Data Samples, SLAC BaBar Note #567.
- [14] C. Borean *et al.*, (5 authors); Measurement of the $B^0 \rightarrow D^{*-}\ell^+\nu_{\ell}$ Branching Fraction, SLAC BaBar Note #592, BABAR-CONF-03/03.

- [15] M. Bomben *et al.*, (8 authors); Measurement of $|V_{cb}|$ using $\bar{B}^0 \rightarrow D^{*+}\ell^-\bar{\nu}_{\ell}$ Decays, SLAC BaBar Note #679, BABAR-CONF-03/16, SLAC-PUB-10105, hep-ex/0308027.
- [16] M. Bomben *et al.*, (7 authors); Measurement of $|V_{cb}|$ using $\bar{B}^0 \rightarrow D^{*+}\ell^-\bar{\nu}_{\ell}$ Decays, SLAC BaBar Note #776, BABAR-PUB-04/018, SLAC-PUB-100591, hep-ex/0408027.
- [17] M. Bomben *et al.*, (3 authors); Simultaneous determination of the form factors of the decay $\bar{B}^0 \rightarrow D^{*+}\ell^-\bar{\nu}_{\ell}$ and of $|V_{cb}|$, SLAC BaBar Note #1113.
- [18] M. Bomben *et al.*, (3 authors); Determination of the Form Factors for the Decay $B^0 \rightarrow D^{*-}\ell^+\nu_{\ell}$ and of the CKM Matrix Element $|V_{cb}|$, SLAC BaBar Note #1395, BABAR-PUB-07/008, SLAC-PUB-12511, arXiv:0705.4008.
- [19] M. Bomben *et al.*, (3 authors); Determination of the Form Factors for the Decay $B^0 \rightarrow D^{*-}\ell^+\nu_{\ell}$ and of the CKM Matrix Element $|V_{cb}|$, SLAC BaBar Note #1579, BABAR-CONF-06/022, SLAC-PUB-12014, hep-ex/0607076.

Note CMS

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- [21] A. Benaglia *et al.*, (9 authors); Intercalibration at 2006 ECAL test beam with the inverted matrix technique, CMS DN-2007/002 - ECAL.
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- [23] A. Benaglia *et al.*, (9 authors); Intercalibration at 2006 ECAL test beam with the inverted matrix technique, CMS DN-2007/002 - ECAL.
- [24] F. Cossutti *et al.*, (9 authors); Pseudorapidity dependence of the energy containment at the 2006 ECAL testbeam, CMS DN-2007/005 - ECAL.
- [25] T. Camporesi *et al.*, (16 authors); Pre-calibration of the CMS ECAL with cosmic ray muons, CMS DN-2007/009 - ECAL.
- [26] F. Cossutti, G. Della Ricca, D. Montanino; Charged mini jet pairs as pattern of MPI, CMS AN AN-10-303.
- [27] F. Cossutti, G. Della Ricca, D. Montanino; Charged mini jet pairs as pattern of Multiple Partonic Interactions, CMS PAS QCD-10-022.
- [28] V. Candelise *et al.*, (11 authors); Measurement of the jet rate production in association to a Z boson, CMS AN AN-12-376.
- [29] V. Candelise *et al.*, (9 authors); Comparison of GSF and Particle Flow electron reconstruction performance, CMS AN AN-11-474.
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- [31] V. Candelise *et al.*, (11 authors); Exclusive jet multiplicity and differential production cross sections of Z+jets events in proton-proton, CMS PAS SMP-12-017, CMS PAPER SMP-12-017.

- [32] V. Candelise *et al.*, (8 authors); Associated production of Z boson and b -jets in pp collision at 8 TeV, CMS AN AN-13-165.
 - [33] V. Brigljevic *et al.*, (12 authors); Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s} = 8$ TeV, CMS AN AN-14-105.
 - [34] V. Candelise *et al.*, (8 authors); Measurement of the associated production of a Z boson and b jets in pp collision at 8 TeV, CMS PAS SMP-14-010, CMS PAPER SMP-14-010.
 - [35] V. Brigljevic *et al.*, (12 authors); Measurement of the W boson production cross section in association with two b jets at $\sqrt{s} = 8$ TeV, CMS PAS SMP-14-020, CMS PAPER SMP-14-020.
 - [36] V. Candelise *et al.*, (4 authors); Measurement of the production cross section of a Z boson in association with exactly one or at least two b jets with the CMS experiment at LHC, CMS AN AN-15-010.
 - [37] V. Candelise *et al.*, (4 authors); Measurements of the $pp \rightarrow W^\pm \gamma \gamma$ and $pp \rightarrow Z \gamma \gamma$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s} = 13$ TeV, CMS AN AN-19-029.
 - [38] V. Candelise *et al.*, (4 authors); Measurements of the $pp \rightarrow W^\pm \gamma \gamma$ and $pp \rightarrow Z \gamma \gamma$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s} = 13$ TeV, CMS PAS SMP-19-013, CMS PAPER SMP-19-013.
 - [39] R. Delli Gatti *et al.*, (4 authors); Studies of Z+jets in pp and PbPb collisions at 5.36 TeV using Run 3 data, CMS AN AN-25-056.
- Note DELPHI**
- [40] M. Bonesini *et al.*, (7 authors); Simulation of the DELPHI STIC Calorimeter, DELPHI 93-118 CAL 106, October 1993.
 - [41] M. Bigi *et al.*, (30 authors); DELPHI results on the Z^0 Resonance Parameters and Measurement of Fermion-Pair Production at LEP1.5 Energies for the La Thuile and Moriond Conferences 1996, March 1996, DELPHI 96-29 PHYS 603.
 - [42] M. Bigi *et al.*, (37 authors); DELPHI results on the Z^0 Resonance Parameters and Measurement of Fermion-Pair Production at LEP1.5 Energies for the Summer 1996 Conferences, contribution to the 28th International Conference on High Energy Physics, Warsaw, Poland, July 1996, and DELPHI 96-118 CONF 45.
 - [43] M. Bigi *et al.*, (38 authors); A search for Contact Interactions between leptons at $\sqrt{s}=130$ -140 GeV, contribution to the 28th International Conference on High Energy Physics, Warsaw, Poland, July 1996, and DELPHI 96-119 CONF 46.
 - [44] M. Bigi *et al.*, (10 authors); First Measurement of the cross-section $\sigma(e^+e^- \rightarrow q\bar{q}(\gamma))$ at 161 GeV, contribution to the International Europhysics Conference on High Energy Physics, Warsaw, Poland, July 1996, and DELPHI 96-135 PHYS 635.
 - [45] M. Bigi *et al.*, (40 authors); DELPHI results on the Measurement of Fermion-Pair Production for Z^0 - peak and Higher Energies at LEP for the Winter 1997 Conferences, DELPHI 97-31 PHYS 684.
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 - [47] A. Behrman *et al.*, (11 authors); First Measurement of Cross-sections and Forward-Backward Asymmetries from Fermion Pair production in e^+e^- Annihilations at 182.6 GeV, contribution to the International Europhysics Conference on High Energy Physics, Jerusalem, Israel, August 1997, and DELPHI 97-139 CONF 113.
 - [48] G. Della Ricca *et al.*, (9 authors); Determination of the cross-section for the production of quark-antiquark pairs in e^+e^- annihilation at collision energies of 130-172 GeV, DELPHI 97-XXX PHYS XXX.
 - [49] G. Della Ricca *et al.*, (8 authors); Preliminary Cross-sections for the Quark-Antiquark Pair Production in e^+e^- Annihilations measured by DELPHI around 183 GeV, Team 4 Note 98-1, contribution to Moriond-98, and DELPHI 98-29 CONF 125.
 - [50] P. Abreu *et al.*, (~560 authors); Measurement and Interpretation of Fermion-Pair Production at LEP energies from 130 to 172 GeV, contribution to the 29th International Conference on High Energy Physics, Vancouver, Canada, July 1998, and DELPHI 98-87 CONF 155.
 - [51] P. Abreu *et al.*, (~560 authors); Cross Sections and Leptonic Forward-Backward Asymmetries from the Z^0 Running of LEP, contribution to the 29th International Conference on High Energy Physics, Vancouver, Canada, July 1998, DELPHI 98-113 CONF 175, and CERN-OPEN-2000-031.
 - [52] A. Behrman *et al.*, (17 authors); Results on Fermion-Pair Production at LEP energies up to 183 GeV, contribution to the 29th International Conference on High Energy Physics, Vancouver, Canada, July 1998, and DELPHI 98-139 CONF 200.
 - [53] I. Boyko *et al.*, (15 authors); Results on Fermion-Pair Production at LEP running near 189 GeV, contribution to the 29th International Conference on High Energy Physics, Vancouver, Canada, July 1998, DELPHI 98-141 CONF 202, and CERN-OPEN-2000-033.
 - [54] A. Behrman *et al.*, (19 authors); Results on Fermion-Pair Production at LEP running near 183 and 189 GeV, contribution to the Winter 1999 Conferences, DELPHI 99-58 CONF 247.
 - [55] A. Behrman *et al.*, (20 authors); Results on Fermion-Pair Production at LEP running near 183 and 189 GeV, contribution to the International Europhy-

sics Conference on High Energy Physics, Tampere, Finland, July 1999, and DELPHI 99-135 CONF 322.

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Note DELPHI Team 4

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