

# Giuseppe Salamanna

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*Post-doctoral staff* a NIKHEF, con una borsa di ricerca *VIDI* sovvenzionata dal governo olandese.

Distaccato al CERN, dove lavora a tempo pieno nell'esperimento ATLAS. Le sue attuali attività di ricerca includono il *commissioning* del Livello-1 del trigger dei muoni di ATLAS, il lavoro di sviluppo ed ottimizzazione della ricostruzione di muoni; e l'analisi di fisica del quark *top* in vista dei primi dati dell'acceleratore  $p - p$  LHC.

Da diversi mesi è coinvolto, per una parte consistente del tempo, nel *commissioning* del sistema di trigger di muoni di Livello-1 di ATLAS, utilizzando raggi cosmici. Si sta occupando di valutare il grado di sincronizzazione dei vari settori di trigger utilizzando in parallelo due strategie: studiare i ritardi in riferimento ad un tempo dato da un trigger esterno; e guardare esclusivamente allo stesso trigger di muoni, in relazione ad un settore scelto come riferimento; questa ultima analisi massimizza la accettazione ai raggi cosmici. Ha proposto, per questa analisi, l'utilizzo di tracce di muoni ricostruite, con il molteplice vantaggio di sopprimere falsi trigger, e poter selezionare differenti topologie per lo studio (Ref. SP.8).

Ha anche effettuato uno studio preliminare delle prestazioni del trigger di muoni di Livello-1 con i primi dati a 900 GeV di LHC del Dicembre 2009 (Ref. IN.6). Per il lavoro di *commissioning* ha prodotto una notevole quantità di strumenti di analisi e validazione, utilizzati nella *production* ufficiale di ATLAS; per passare poi alla analisi vera e propria. Il lavoro è in stretta collaborazione con gli esperti del trigger di muoni (in gran parte italiani).

Per quanto concerne la ricostruzione dei muoni, è da più di due anni uno degli sviluppatori del programma **Moore** di tracciamento nello spettrometro di muoni di ATLAS. In particolare, ha sviluppato il secondo stadio del *segment finding* di Moore, in cui vengono recuperati i segmenti di traccia non associati ad un muone nei primi stadi della ricostruzione. Tale recupero contribuisce notevolmente a migliorare la risoluzione in impulso per tracce in eventi ad alta molteplicità di *hit* nelle camere a mu.

Al fine di controllare le prestazioni di Moore è anche il responsabile della validazione della intera catena di ricostruzione su campioni di eventi simulati. Infine, è anche tra gli autori dei risultati di ATLAS sulle prestazioni previste per la ricostruzione dei muoni su campioni simulati, scritta nel 2009 (Ref. SP.10).

Dal punto di vista della analisi, si concentra sullo studio di eventi  $t\bar{t}$  con leptoni di grande impulso, selezionati con il *trigger* di ATLAS. L'obiettivo è la misura della sezione d'urto di produzione di coppie  $t\bar{t}$  alla energia nel c.d.m. fornita da LHC, ed un confronto con le predizioni del Modello Standard. Insieme con i colleghi di Nikhef sta migliorando ed estendendo l'analisi a più livelli. Anzitutto è *main editor* della nota sulle selezioni e la misura di efficienza per i leptoni in preparazione alla prima misura di sezione d'urto con i dati di LHC. Inoltre è coordinatore del gruppo di studi ed ottimizzazione della selezione di muoni per le analisi di fisica del Top di ATLAS, all'interno del *Top Reconstruction Working Group* (Ref. IN.1); inoltre lavora sul fit finale di *likelihood* al numero di candidati per la misura di sezione d'urto: personalmente si occupa di migliorare la associazione di jets al top che decade adronicamente, in modo da ridurre il principale fondo (associazione errata)

al fit al numero di candidati (Ref. IN.2).

In particolare, con i primi dati intende investigare le risposte del detector in eventi complessi come quelli di  $t\bar{t}$ , grazie alla conoscenza del Top ottenuta al Tevatron. Sta anche lavorando con colleghi di NIKHEF alla determinazione, su campioni simulati, della probabilità attesa che un jet venga ricostruito come un leptone di grande impulso e che induca alla selezione di un falso evento  $t\bar{t}$ , al fine di parametrizzare tale probabilità nello spazio delle fasi.

È anche co-autore dell'**Event Data Model** adottato dall'ATLAS Top Reconstruction working group al fine di rappresentare univocamente i candidati top nelle varie analisi (Ref. IN.3).

Nel 2007 è stato un *Research staff* alla University of Washington, anche in questo caso distaccato al CERN. Ha attivamente contribuito a studi di rivelabilità di particella a vita media molto lunga (alcuni metri), comuni in molti modelli di fisica oltre lo SM. L'obiettivo è quello di sviluppare ed integrare in ATLAS nuovi algoritmi di trigger sia di leptone che di jet *ad hoc* per massimizzare l'efficienza nella selezione di vertici molto distanti dalla interazione primaria, pur non saturando la banda passante con eventi di fondi quali eventi di QCD a molti jet. Tale analisi necessita familiarità con la struttura del trigger di alto livello di ATLAS e una approfondita conoscenza della risposta del detector e della ricostruzione in questi particolari topologie. L'analisi è stata documentata in una nota di ATLAS (Ref. IN.4). Lo studio è stato condotto in stretta collaborazione con colleghi di Roma.

Ha studiato fisica all'Università di Roma "La Sapienza", a partire dal 1998. Ha ivi conseguito la laurea in fisica nel 2003 sotto la supervisione del Professor Carlo Dionisi. Nel 2007 ottiene, presso la medesima Università, il Dottorato di ricerca in fisica, con un lavoro di tesi svolto nell'esperimento CDF. Si è recato con regolarità presso il Fermi National Accelerator Laboratory di Chicago dal 2002 al 2006 per lavorare all'interno del gruppo di fisica degli adroni  $b$  di CDF: in particolare la sua tesi si situa all'interno della recente misura della frequenza di *mixing*  $\Delta m_s$  dei mesoni  $B_s^0$ . Attesa per lungo tempo, questa misura rappresenta un importante limite al contributo di Nuova Fisica nel settore della fisica dei sapori pesanti ed è stata unicamente possibile al Tevatron di Fermilab (Ref. SP.1).

Il suo contributo inizia già con la tesi di laurea, per la quale porta avanti studi di risoluzione e propone metodi di calibrazione *off-line* per il misuratore di Tempo di Volo (TOF) di CDF utilizzando campioni puri come eventi di-leptonici da decadimenti delle  $J/\psi$ , nei quali i due leptoni vengono creati allo stesso tempo. Questo consente di separare effetti di detector ed elettronica dalla parte algoritmica della misura di tempo di volo (Ref. IN.28). Il TOF fornisce a CDF la principale capacità di separazione tra Kaoni, pioni e protoni a basso momento, al fine di sviluppare algoritmi di *flavour tagging* basato su mesoni  $K$  per la analisi di fenomeni dipendenti dal tempo, come il *mixing*. Egli stesso è l'autore del primo algoritmo funzionante di *Opposite Side Kaon Tagging* (*flavour tagger* nel lato non di trigger utilizzando mesoni  $K$ ) ad un *collider* adronico (Ref. IN.12). Tale tagger, usato in combinazione con gli altri *taggers* lontani dal lato di segnale per la misura finale della frequenza di *mixing*, contribuisce ad aumentare le prestazioni totali del flavour tagging (Ref. IN.11).

Inoltre è responsabile di comparare le prestazioni del TOF in vari periodi di presa dati, al fine di valutare le prestazioni attese del *Same Side Kaon Tagger* nel tempo (Ref. IN.13). Il suo contributo sul TOF ed il flavour tagging sono è anche stato successivamente rilevante per la misura della fase di *mixing*  $\Delta\Gamma_s$  (Ref. SP.3) e per successive analisi utilizzando *particle identification*; alle quali egli contribuiva attivamente nel suo periodo di permanenza a Berkeley.

## Istruzione

Gennaio 2007	Dottorato di ricerca in Fisica, con una tesi dal titolo: “ <i>First observation of <math>B_s</math> mixing at the CDF II experiment with a newly developed Opposite Side <math>b</math> flavour tagger using Kaons</i> ”, sotto la supervisione del Prof. C. Dionisi e del Dott. M. Rescigno, Università degli Studi di Roma <i>La Sapienza</i> , Roma, Italia
Settembre 2003	Laurea in Fisica con la votazione di 110/110, con una tesi dal titolo: “ <i>Studio della risoluzione del rivelatore di Tempo di Volo dell’esperimento CDF II al Fermilab</i> ”, sotto la supervisione del Prof. C. Dionisi e del Dott. S. Giagu, Università degli Studi di Roma <i>La Sapienza</i> , Roma, Italia
Luglio 1998	Maturità Classica con votazione 60/60, Liceo Ginnasio Pilo Albertelli, Roma, Italia

## Carriera

2008 – attuale	Post-doctoral staff a NIKHEF, distaccato al CERN
2008 – attuale	Membro della collaborazione ATLAS come affiliato a NIKHEF
2007	Research Associate alla University of Washington, distaccato al CERN
2006	<i>Visiting scientist</i> al Lawrence Berkeley National Laboratory per collaborare con il locale gruppo di CDF sulle analisi di $B_s$ mixing
2002 – 2006	Regolari missioni al Fermi National Accelerator Laboratory per l’esperimento CDF
2003 – 2006	Studente di dottorato, con il gruppo CDF presso l’Università degli Studi di Roma <i>La Sapienza</i> e sezione INFN di Roma
2002 – 2006	Membro della collaborazione CDF come affiliato a INFN-Roma
2003 – 2006	Associazione INFN per l’esperimento CDF
2004 – 2005	Scelto come aiuto alla didattica presso la Università di Roma <i>La Sapienza</i>

## Borse di studio e ricerca

2003 – 2006	Borsa di studio INFN per il Dottorato di ricerca, assegnata per graduatoria del concorso di accesso al Dottorato di Ricerca
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## Scuole

2004	CERN European Summer School, Sant Feliu de Guixols, Spagna
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## Insegnamento

2010	Supervisione della studentessa N.Ruckstuhl (NIKHEF) nei suoi studi di <i>scala e risoluzione sulla misura di impulso dei muoni</i> con raggi cosmici e i primi dati di LHC
2009	Supervisione dello studente E.J.Schioppa (INFN-Roma) nel suo studio di <i>timing del trigger di muoni a Livello-1</i> con raggi cosmici, utilizzando un trigger esterno, durante il periodo come <i>summer student</i> al CERN
2008	Supervisione dello studente A.Doxiadis (NIKHEF) nei suoi studi di <i>fake leptons</i> per misure di $t\bar{t}$
2007	Supervisione dello studente D.Ventura (University of Washington)
2005	Supervisione dello studente M.Nardecchia (INFN-Roma) nel suo studio di <i>flavour tagging</i> con barioni $\Lambda$ , durante il periodo come <i>summer student</i> al Fermilab
2004 – 2005	Aiuto alla didattica per il corso di Fisica, Corso di laurea in Farmacia, Università di Roma <i>La Sapienza</i>

### Talks a conferenze

Ott 2009	“Results from the ATLAS Barrel Level-1 Muon Trigger timing studies using combined trigger and offline tracking” 2009 IEEE Nuclear Science Symposium and Medical Imaging Conference (IEEE NSS MIC 09), Orlando, FL, USA
Gen 2009	“Early Top physics with ATLAS at the LHC” Physics@FOM Veldhoven 2009
Lug 2006	“Measurement of $B_s$ oscillations at CDF” 7th International Conference on Hyperons, Charm And Beauty Hadrons (BEACH06), Lancaster, UK.
Apr 2006	“Measurement of $B_s$ oscillation frequency at CDF” Incontri di Fisica delle Alte Energie, Pavia, Italy,
Feb 2006	“ $B_s$ and sensitivity to new physics at CDF” Third workshop on $b$ physics, Parma, Italy,
Lug 2005	“Techniques for $B_s$ Mixing at CDF” poster at the Hadron Collider Physics Symposium 2005, Les Diablerets, Switzerland
Apr 2005	“Opposite side B-flavour tagging using combined TOF and dE/dx particle identification technique” American Physics Society April Meeting 2005, Tampa, FL, USA
Feb 2006	“ $b$ flavour tagging with Kaons for B physics at CDF” RTN “The third generation as a probe for new physics” Meeting, Karlsruhe, Germany

### Conoscenze tecniche

**Programmazione:** C, C++, programma di analisi dati **Root**, codice di analisi dati di ATLAS ATHENA. Buona conoscenza di Linux e Windows sia a livello utente che amministratore.

**Computer Hardware:** PC incluse periferiche ed interfacce

**Rivelatori di particelle:** operation, calibrazioni, trigger e sincronizzazione della elettronica di trigger

## Selezione delle Pubblicazioni

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Lista delle pubblicazioni nelle quali il proprio contributo è stato fondamentale. Gli articoli indicati con <sup>†</sup> sono stati sottoposti al giudizio di un *referee*

- [SP.1<sup>†</sup>] “*Observation of  $B_s^0 - \bar{B}_s^0$  Oscillations*”, Abulencia, A. *et al.* (CDF collaboration), Phys. Rev. Lett. **97**, 242003 (2006)
- [SP.2<sup>†</sup>] “*Measurement of  $B_s$  oscillations at CDF*”, Salamanna, G. (CDF collaboration), Proceedings of the 7th International Conference on Hyperons, Charm And Beauty Hadrons (BEACH 2006), Nucl. Phys. B (proceedings Supplements)
- [SP.3<sup>†</sup>] “*First Flavor-Tagged Determination of Bounds on Mixing-Induced CP Violation in  $B_s \rightarrow J/\psi\phi$  Decays*”, Aaltonen, T. *et al.* (CDF collaboration), Phys. Rev. Lett. **100**, 161802 (2008)

- [SP.4<sup>†</sup>] “*Evidence for  $D^0$ - $D^0$ bar mixing using the CDF II Detector*”, (CDF collaboration), Phys. Rev. Lett. **100**, 121802 (2008)
- [SP.5<sup>†</sup>] “*Search for  $B_s \rightarrow \mu^+ \mu^-$  and  $B_d \rightarrow \mu^+ \mu^-$  Decays with  $2\text{fb}^{-1}$  of  $p\bar{p}$  Collisions*”, (CDF collaboration), Phys. Rev. Lett. **100**, 101802 (2008)
- [SP.6<sup>†</sup>] “*Commissioning of the ATLAS Muon Spectrometer with Cosmic Rays*”, (ATLAS collaboration), , (physics.ins-det/1006.4384v1) Submitted to EPJC
- [SP.7<sup>†</sup>] “*Triggering on Long-Lived Neutral Particles in the ATLAS Detector*”, (ATLAS collaboration), ATL-PHYS-PUB-2009-082
- [SP.8] “*The ATLAS Level-1 Muon Barrel Trigger timing studies using combined trigger and offline tracking*”, Salamanna, G. (ATLAS collaboration), Proceedings of the 2009 IEEE NSS MIC Conference, to appear
- [SP.9<sup>†</sup>] “*Prospects for the Top Pair Production Cross-section at  $\sqrt{s} = 10$  TeV in the Single Lepton Channel in ATLAS*”, (ATLAS collaboration), ATL-PHYS-PUB-2009-087
- [SP.10<sup>†</sup>] “*Muon Reconstruction and Identification Performance in ATLAS: Studies with Simulated Monte Carlo Samples*”, Adams, D. *et al* (ATLAS collaboration), ATL-PHYS-PUB-2009-008, as part of Expected Performance of the ATLAS Experiment, Detector, Trigger and Physics, (arXiv:0901.0512)
- [SP.11<sup>†</sup>] “*Measurement of the  $B^0(s)$  - anti- $B^0(s)$  Oscillation Frequency*”, Phys. Rev. Lett. **97**, 062003 (2006) hep-ex/0606027 (CDF collaboration),

# Note interne e pubbliche

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Lista delle note di CDF ed ATLAS delle quali è uno degli autori

- [IN.1] “*Study on reconstructed object definition and selection for top physics*”, (ATL-COM-PHYS-2009-633)
- [IN.2] “*Prospects for measuring the Top Quark Pair Production Cross-section in the Single Lepton Channel at ATLAS in 10 TeV  $p - p$  Collisions*”, **ATLAS public note** ATL-PHYS-INT-2009-071, ATL-COM-PHYS-2009-306
- [IN.3] “*Design Considerations for the Top reconstruction Output EDM Classes*”, (ATL-COM-SOFT-2009-006)
- [IN.4] “*Detection of long lived neutral particles in the ATLAS detector*”, **ATLAS public note** ATL-COM-PHYS-2008-020
- [IN.5] “*Accompanying note for approval of plots from Level 1 Muon Barrel trigger timing studies*”, (ATL-COM-MUON-2009-034)
- [IN.6] “*Atlas Muon Trigger Performance on cosmics and  $p$ - $p$  collisions at  $\sqrt{s} = 900 \text{ GeV}$* ”, **ATLAS public note** ATL-COM-DAQ-2010-011
- [IN.7] “*Muon Performance in Minimum Bias  $pp$  Collision Data at  $\sqrt{s} = 7 \text{ TeV}$  with ATLAS*”, **ATLAS public note** ATLAS-CONF-2010-036
- [IN.8] “*Muon reconstruction performance*”, **ATLAS public note** ATLAS-CONF-2010-064
- [IN.9] “*Search for top pair candidate events in ATLAS at  $\sqrt{s} = 7 \text{ TeV}$* ”, (ATLAS-CONF-2010-063)
- [IN.10] “*Expected event distributions for early top pair candidates in ATLAS at  $\sqrt{s} = 7 \text{ TeV}$* ”, **ATLAS public note** ATL-PHYS-PUB-2010-012
- [IN.11] “*Determination of  $B^0$  and  $B^+$  Lifetimes in Hadronic Decays Using Partially and Fully Reconstructed Modes without Event-by-Event  $ct$  Resolutions*”, (CDF9139)
- [IN.12] “*First observation of  $\bar{B}_s^0 \rightarrow D_s^\pm K^\mp$  and measurement of the relative branching fraction  $BR(\bar{B}_s^0 \rightarrow D_s^\pm K^\mp)/BR(\bar{B}_s^0 \rightarrow D_s^\pm \pi^\mp)$* ”, (CDF8850)
- [IN.13] “*Determination of  $B^0$  and  $B^+$  Lifetimes in Hadronic Decays Using Partially and Fully Reconstructed Modes*”, (CDF8778)
- [IN.14] “*Measurement of  $B^-$  Relative Branching Fractions with a Combined Mass and  $dE/dx$  Fit*”, (CDF8777)
- [IN.15] “*Measurement of  $B_s^0$  Branching Fractions Using Combined Mass and  $dE/dx$  Fits*”, (CDF8776)

- [IN.16] “*Measurement of  $B^0$  Branching Fractions Using Combined Mass and  $dE/dx$  Fits*”, (CDF8705)
- [IN.17] “ *$B_s \rightarrow D_s \pi$  with  $D_s \rightarrow K_s[\pi\pi]K$  channel reconstruction using PID*”, (CDF8520)
- [IN.18] “*Combined opposite side flavor tagger*”, (CDF8314)
- [IN.19] “*Opposite Side Kaon Tagging*”, (CDF8179)
- [IN.20] “ *$dE/dx$ , TOF validation studies on  $0h/0i$  data for  $B_s$  mixing analyses*”, (CDF8169)
- [IN.21] “*Improving the  $dE/dx$  modeling and a study of the composition of the  $B \rightarrow hh$  background*”, (CDF7646)
- [IN.22] “*Particle Identification by combining TOF and  $dE/dx$  information*”, (CDF7488)
- [IN.23] “ *$B\_PIPI$  trigger at high luminosity*”, (CDF7320)
- [IN.24] “*Measurement of isolation efficiency in low pt  $B$  mesons*”, (CDF7066)
- [IN.25] “*Branching Ratios and CP asymmetries in  $B \rightarrow hh$  decays from  $180\text{ pb}^{-1}$* ”, (CDF7049)
- [IN.26] “*Upper limit on  $\Lambda_b$  to  $hh$* ”, (CDF7048)
- [IN.27] “*Search for  $B_s \rightarrow \phi\phi$  decays at CDF*”, (CDF6937)
- [IN.28] “*Tof Resolution studies using muons from  $J/\psi$* ”, (CDF6810)

# Pubblicazioni sotto referee

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Lista di tutti gli articoli pubblicati dei quali è uno degli autori

- [RP.1] “*The ATLAS Inner Detector commissioning and calibration*”, (ATLAS collaboration), , (physics.ins-det/1004.5293)
- [RP.2] “*Charged-particle multiplicities in pp interactions at  $\sqrt{s} = 900$  GeV measured with the ATLAS detector at the LHC*”, (ATLAS collaboration), Phys. Lett. **B688**, 21-42 (2010)
- [RP.3] “*Measurement of the J/psi meson and b-hadron production cross sections in p anti-p collisions at  $s^{*}(1/2) = 1960$ -GeV*”, Acosta D., et al. (CDF collaboration), Phys. Rev. D **71**, 032001 (2005), (hep-ex/0412071)
- [RP.4] “*Expected Performance of the ATLAS Experiment - Detector, Trigger and Physics*”, (ATLAS collaboration), arXiv:0901.0512.
- [RP.5] “*Measurement of the Ratio of Branching Fractions  $Br(B^+ \rightarrow J/\Psi \pi^+)/Br(B^+ \rightarrow J/\Psi \pi^+)$* ”, Abulencia, A. et al. (CDF collaboration), arXiv:0905.2146 [Submitted to Phys/Rev.D]
- [RP.6] “*Search for Maximal Flavor Violating Scalars in Same-Charge Lepton Pairs in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*”, (CDF collaboration), arXiv:0809.4903 [hep-ex].
- [RP.7] “*Search for Doubly Charged Higgs Bosons with Lepton-Flavor-Violating Decays involving Tau Leptons*”, (CDF collaboration), Phys. Rev. Lett. **101**, 121801 (2008) [arXiv:0808.2161 [hep-ex]].
- [RP.8] “*Search for Heavy, Long-Lived Neutralinos that Decay to Photons at CDF II Using Photon Timing*”, (CDF collaboration), Phys. Rev. D **78**, 032015 (2008) [arXiv:0804.1043 [hep-ex]].
- [RP.9] “*Search for Hadronic Decays of W and Z Bosons in Photon Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$ -GeV*”, (CDF collaboration), arXiv:0803.4264 [hep-ex].
- [RP.10] “*Search for Pair Production of Scalar Top Quarks Decaying to a  $\tau$  Lepton and a b Quark in  $p\bar{p}$  Collisions at  $\sqrt{s}=1.96$  TeV*”, (CDF collaboration), Phys. Rev. Lett. **101**, 071802 (2008) [arXiv:0802.3887 [hep-ex]].
- [RP.11] “*Two-Particle Momentum Correlations in Jets Produced in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$ -TeV*”, (CDF collaboration), Phys. Rev. D **77**, 092001 (2008) [arXiv:0802.3182 [hep-ex]].
- [RP.12] “*Search for the Higgs boson in events with missing transverse energy and b quark jets produced in proton-antiproton collisions at  $\sqrt{s} = 1.96$  TeV*”, Phys. Rev. Lett. **100**, 211801 (2008) (CDF collaboration), [arXiv:0802.0432 [hep-ex]].
- [RP.13] “*First Measurement of ZZ Production in panti-p Collisions at  $\sqrt{s} = 1.96$ -TeV*”, (CDF collaboration), Phys. Rev. Lett. **100**, 201801 (2008) [arXiv:0801.4806 [hep-ex]].



- [RP.14] “*Measurement of Ratios of Fragmentation Fractions for Bottom Hadrons in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96\text{-TeV}$* ”, (CDF collaboration), Phys. Rev. D **77**, 072003 (2008) [arXiv:0801.4375 [hep-ex]].
- [RP.15] “*Search for Heavy Top-like Quarks Using Lepton Plus Jets Events in 1.96-TeV  $p\bar{p}$  Collisions*”, (CDF collaboration), Phys. Rev. Lett. **100**, 161803 (2008) [arXiv:0801.3877 [hep-ex]].
- [RP.16] “*Search for New Heavy Particles Decaying to  $Z^0 Z^0 \rightarrow eeee$  in  $p - \bar{p}$  Collisions at  $\sqrt{s} = 1.96\text{-TeV}$* ”, (CDF collaboration), Phys. Rev. D **78**, 012008 (2008) [arXiv:0801.1129 [hep-ex]].
- [RP.17] “*First Measurement of the Fraction of Top Quark Pair Production Through Gluon-Gluon Fusion*”, (CDF collaboration), Phys. Rev. D **78**, 111101 (2008) [arXiv:0712.3273 [hep-ex]].
- [RP.18] “*Model-Independent Global Search for New High- $p_T$  Physics at CDF*”, (CDF collaboration), arXiv:0712.2534 [hep-ex].
- [RP.19] “*First Flavor-Tagged Determination of Bounds on Mixing-Induced CP Violation in  $B_s \rightarrow J/\psi$   $\phi$  Decays*”, (CDF collaboration), Phys. Rev. Lett. **100**, 161802 (2008) [arXiv:0712.2397 [hep-ex]].
- [RP.20] “*Measurement of Lifetime and Decay-Width Difference in  $B_s^0 \rightarrow J/\psi \phi$  Decays*”, (CDF collaboration), Phys. Rev. Lett. **100**, 121803 (2008) [arXiv:0712.2348 [hep-ex]].
- [RP.21] “*Evidence for  $D^0$ - $D^0$ bar mixing using the CDF II Detector*”, (CDF collaboration), Phys. Rev. Lett. **100**, 121802 (2008) [arXiv:0712.1567 [hep-ex]].
- [RP.22] “*Search for  $B_s \rightarrow \mu^+ \mu^-$  and  $B_d \rightarrow \mu^+ \mu^-$  Decays with  $2\text{fb}^{-1}$  of  $p\bar{p}$  Collisions*”, (CDF collaboration), Phys. Rev. Lett. **100**, 101802 (2008) [arXiv:0712.1708 [hep-ex]].
- [RP.23] “*Observation of the Decay  $B_c^\pm \rightarrow J/\psi \pi^\pm$  and Measurement of the  $B_c^\pm$  Mass*”, (CDF collaboration), Phys. Rev. Lett. **100**, 182002 (2008) [arXiv:0712.1506 [hep-ex]].
- [RP.24] “*Model-Independent and Quasi-Model-Independent Search for New Physics at CDF*”, (CDF collaboration), Phys. Rev. D **78**, 012002 (2008) [arXiv:0712.1311 [hep-ex]].
- [RP.25] “*Observation of Exclusive Dijet Production at the Fermilab Tevatron  $p$ - $\bar{p}$  Collider*”, (CDF collaboration), Phys. Rev. D **77**, 052004 (2008) [arXiv:0712.0604 [hep-ex]].
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