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1.



### Tesla Sparked the Era of Particle Accelerators

(presented at Tesla Conference 2011) / [White, Sebastian](#)

(speaker) (Rockefeller/Pisa)

2011 - Streaming video. Commemorations **External link:** [Event](#)

[details](#) In : Tesla Sparked the Era of Particle Accelerators

(presented at Tesla Conference 2011)

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### 2. Diffraction at the LHC: a non-technical Introduction / [White, Sebastian](#)

In diffractive interactions of protons or nuclei a violent collision can occur that leaves the forward going particle completely intact -with probability determined by the structure of the proton or nucleus. [...]

[arXiv:1003.4252](#). - 2010.

[Preprint](#)

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### 3. On the Correlation of Subevents in the ATLAS and CMS/Totem Experiments /

[White, Sebastian N](#)

We analyze the problem of correlating pp interaction data from the central detectors with a subevent measured in an independent system of leading proton detectors using FP420 as an example. [...]

[arXiv:0707.1500](#). - 2007. - 19 p.

[Full text](#)

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### 4. Design of a 10 picosecond Time of Flight Detector using Avalanche

**Photodiodes** / [White, Sebastian](#) ; [Chiu, Mickey](#) ; [Diwan, Milind](#) ; [Atoian, Grigor](#) ; [Issakov, Vladimir](#)

We describe a detector for measuring the time of flight of forward protons at the Large Hadron Collider (LHC) up to and beyond the full instantaneous design luminosity of 1034 cm<sup>-2</sup> s<sup>-1</sup>. [...]

[arXiv:0901.2530](#). - 2009.

[Preprint](#)

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### 5. ATLAS Results from the first Pb-Pb Collisions / [White, Sebastian N](#) (Rockefeller U.)

The ATLAS detector is capable of resolving the highest energy pp collisions at luminosities sufficient to yield 10's of simultaneous interactions within a bunch collision lasting <0.5 nsec. [...]

arXiv:1111.2789. - 2011. - 9 p.

[Preprint](#)



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6. **The FP420 R&D Project: Higgs and New Physics with forward protons at the LHC** / [Albrow, M G](#) (Fermilab) ; [Appleby, R B](#) (Cockcroft Inst. Accel. Sci. Tech ; Manchester U.) ; [Arneodo, Michele](#) (INFN, Turin) ; [Atoian, G](#) (Yale U.) ; [Barlow, R](#) (Cockcroft Inst. Accel. Sci. Tech ; Manchester U.) ; [Beaumont, W](#) (Antwerp U., WISINF) ; [Bonnet, L](#) (Louvain U.) ; [Brandt, A](#) (Texas U., Arlington) ; [Bussey, P](#) (Glasgow U.) ; [Buttar, C](#) (Glasgow U.) *et al.*

We present the FP420 R&D; project, which has been studying the key aspects of the development and installation of a silicon tracker and fast-timing detectors in the LHC tunnel at 420 m from the interaction points of the ATLAS and CMS experiments. These detectors would measure precisely very forward protons in conjunction with the corresponding central detectors as a means to study Standard Model (SM) physics, and to search for and characterise New Physics signals. [...]

arXiv:0806.0302.- 2009 - 176 p. - Published in : [J. Instrum. 4 \(2009\) T10001](#) **SISSA/IOP Open**

**Access article** : [PDF](#); **External link**: [Fulltext](#)



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7. **Inelastic Diffraction at Heavy Ion Colliders** / [White, Sebastian N](#) (Brookhaven Nat. Lab.)

The heavy ion physics approach to global event characterization has led us to instrument the forward region in the PHENIX experiment at RHIC. In heavy ion collisions this coverage yields a measurement of the "spectator" energy and its distribution about the beam direction. [...]

nucl-ex/0501004.- 2005 - Published in : [Nucl. Phys. B, Proc. Suppl. 146 \(2005\) 48-52](#) [nucl-ex/0501004 PDF](#)

Presented at : [International Workshop on Diffraction in High-Energy Physics](#), Cala Gonone, Italy, 18 - 23 Sep 2004, pp.48-52



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8. **Energy Calibration of Underground Neutrino Detectors using a 100 MeV electron accelerator** / [White, Sebastian](#) ; [Yakimenko, Vitaly](#)

An electron accelerator in the 100 MeV range, similar to the one used at BNL's Accelerator test Facility, for example, would have some advantages as a calibration tool for water cerenkov or Liquid Argon neutrino detectors. [...]

arXiv:1004.3068. - 2010.

[Preprint](#)



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9. **The role of Spectator Fragments at an electron Ion collider** / [White, Sebastian](#) ; [Strikman, Mark](#)

Efficient detection of spectator fragments is key to the main topics at an electron-ion collider (eIC). [...]

arXiv:1003.2196. - 2010.

[Preprint](#)



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10. **Beam Fragmentation in Heavy Ion Collisions and its implication for RHIC triggers at low s** / [White, Sebastian](#) ; [Strikman, Mark](#)

We show that with a realistic treatment of spectator momentum distributions the RHIC detector trigger sensitivity is high even when RHIC is run below injection energies. [...]

arXiv:0910.3205. - 2009.

[Preprint](#)



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### 11. **Mathematica with ROOT** / [Hsieh, Ken](#) ; [Throwe, Thomas G](#) ; [White, Sebastian](#)

We present an open-source Mathematica importer for CERN ROOT files [...]

[arXiv:1102.5068](#). - 2011.

[Preprint](#)



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### 12. **Very Forward Calorimetry at the LHC - Recent results from ATLAS** / [White, Sebastian N](#) (Brookhaven)

We present first results from the ATLAS Zero Degree Calorimeters (ZDC) based on 7~TeV pp collision data recorded in 2010. [...]

[arXiv:1101.2889](#). - 2011. - 8 p.

[Preprint](#)



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13.



#### "Do you think Evolution should be taught in schools?" Interview with Sebastian White

Produced by: CERN video productions

Director: CERN video productions

04:47 min. / 25 August 2011 / © 2011 CERN

Keywords: [evolution](#), [america](#), [school](#), [teach](#), [interview](#), [Sebastian White](#), [2011](#), [science](#), [scientist](#)

Reference: CERN-VIDEORUSH-2011-090

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