

**Abstract:** Charged track parameters such as momentum and angles have been important event selection primitives since the early age of experimental high energy physics. Driven by physics requirements, detectors in accelerators such as LHC see very high hit rate with possible pile up of 200 interactions in each beam bunch crossing. The challenges of contemporary tracking trigger systems are new to HEP community. In this presentation, these challenges will be explained through several examples of both legacy experiments and ongoing new R&D projects. Various schemes of solving these challenges will be described and their advantages and disadvantages will discussed.

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***\*\*Food and drinks will be served after the seminar\*\****

**Speaker: Dr. Jinyuan Wu (Fermi National Accelerator Laboratory)**

**Time: 11:00 am, April 17, 2015**

**Place: Room B324**

**Organized by the Experimental Physics Division**

**Tracking Triggers in High Energy Physics Experiments**

**EPD Seminar**