

ATLAS High granularity timing detector activity at IHEP

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This talk summarized the activity of IHEP/NJU group on ATLAS High granularity timing detector (HGTD) in phase II upgrade. Low-Gain Avalanche Detector (LGAD) is one of the key technology for timing detector. IHEP developed radiation hard LGAD sensors with domestic technology (IHEP-IME sensor), which became the most radiation hard LGAD sensor by far. IHEP is also leading the HGTD module prototyping and module production. IHEP site is the largest production site in HGTD project, and is responsible for more than 1/3 of module production. IHEP/NJU are also responsible for Peripheral Electronics Boards (PEB) design and production. The development of PEB is one of the most challenging tasks in HGTD project.

Primary author: Prof. LIANG ZHIJUN, 梁志均

Presenter: Prof. LIANG ZHIJUN, 梁志均

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