

10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



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Type: **Poster**

sPHENIX EMCal module prototyping and production plan in China

Tuesday 2 June 2020 07:30 (1h 20m)

The sPHENIX detector at BNL's Relativistic Heavy Ion Collider (RHIC) will probe the strongly interacting Quark-Gluon Plasma (QGP) with jets, heavy flavor tagged jets and Upsilon production. The sPHENIX electromagnetic calorimeter (EMCal) detector is essential for these measurements. The Chinese sPHENIX EMCal Consortium includes groups from Fudan, PKU and CIAE, and the consortium is planning to build sPHENIX EMCal modules covering the pseudorapidity range $\pm(0.8-1.1)$, significantly extending the experimental acceptance and greatly enhancing the physics capability for jets and Upsilon measurements. We will show the status of the Chinese prototyping project including investigations on the quality of tungsten powder from Chinese vendors and the quality assurance procedures under development. We will also report on the status of our development of a machine to precisely place scintillating fibers automatically.

Collaboration (if applicable)

Track

New Experimental Developments

Contribution type

Poster

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