



Energy Frontier Science: Contributions to HL/HE and Muon Collider studies

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Plan for contributions (I)

- Reminder:
 - The deadline for submission of contributions to the White Papers foreseen in the context of the European Strategy planning effort is Dec 2018
 - Submission can be done independently or through European partners
- **FNAL contributions to physics studies at HL/HE:**
 - Continue working within the dedicated CMS working group
 - **SUSY studies at HL/HE:** A. Canepa, B. Schneider, N. Strobbe, H. Weber
 - **Higgs studies at HL (Hbb and HH):** C. Vernieri
 - **HE studies:** P. Bhat, D. Denisov
 - The work is internal to CMS (*CMS samples, CMS SW, CMS approval process, CMS documentation*) but non-CMS colleagues are encouraged and more-than welcome to collaborate (we'll sort out the details of the publication)

Plan for contributions (II)

- **FNAL contributions to physics studies at muon collider:**
 - *Extensive program developed at FNAL in the past years - to be documented in the Yellow Report*
 - New informal collaboration between FNAL and INFN
 - Visit of D. Lucchesi to FNAL sponsored by INFN at the end of March
 - INFN plans to release a document in preparation for the European Strategy planning process and invites FNAL contributions
 - **Higgs factory:** Interest expressed so far by a number of FNAL scientists and users including A. Apresyan, A. Canepa, D. Denisov, Z. Gecse, S. Jindariani, R. Lipton, L. Ristori, N. Strobbe, M. Verzocchi, H. Weber