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## **Conventional and Unconventional SUSY Searches at CMS : Results from the new energy regime, $\sqrt{s}=13$ TeV**

*Wednesday, 16 December 2015 09:30 (1 hour)*

The LHC has resumed its operation at the new energy regime,  $\sqrt{s}=13$  TeV, which we had never been before. Thanks to the higher energy compared to the Run1, the cross sections for the production of very heavy objects increased dramatically. This brings a huge advantage to the SUSY searches at the LHC. The CMS carried out some of the conventional SUSY searches using the new data and their results will be discussed in the first half of the talk. In addition, a new analysis has been performed using the scalar sum of masses of the large-radius jets. The rest half of the talk will discuss this analysis in detail.

**Presenter:** Dr YOO, Jae Hyeok

**Session Classification:** Plenary Session