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## #01-191 Preliminary results of the CGEM-IT of the BESIII experiment

*Tuesday, June 22, 2021 3:00 PM (20 minutes)*

The BESIII (Beijing Spectrometer III) experiment is hosted at the leptonic collider BEPCII (Beijing Electron Positron Collider II) at IHEP in Beijing and it is successfully running since 2009. Recently, an extension of the data taking for the next 10 years has been approved, so an upgrade program has started. A central element of the upgrade is the replacement of the present inner tracker with a new detector based on the cylindrical GEM (Gas Electron Multiplier) technology. The CGEM-IT detector is composed of three layers of cylindrical triple-GEMs with time and charge readout to guarantee excellent performance in a wide range of incident angles in 1 Tesla magnetic field. Two of the final layers are already at IHEP and are undergoing commissioning with cosmic rays events. The third layer is being completed by end of 2020 and will be taking data with the other two by the summer of 2021. The installation is foreseen in Summer 2022. In this presentation, the general status of the project will be presented with a particular focus on the recent preliminary results from the cosmic data taking and future plans.

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