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## **Studies for LHAASO-WFCTA and AUGER-Upgrade-SSD**

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The LHAASO (Large High Altitude Air Shower Observatory) project is a cosmic-ray observatory under constructing in China. WFCTA (Wide Field of View Cherenkov Telescope Array) is a important module in the LHAASO hybrid detection. This thesis work concentracte on the simulation and event reconstruction of WFCTA when it's working with other modules in LHAASO. This talk will show some preliminary results of single WFCTA telescope simulation. Besides the work for LHAASO, some R&D experimental works for Auger-Upgrade-SSD (scintillator surface detector) will also be mentioned as a second part of thesis work.

**Auteur principal:** M. ZONG, Zizhao (IPN-Orsay)

**Orateur:** M. ZONG, Zizhao (IPN-Orsay)

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