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## **Measurements of the muon shower content at the Pierre Auger Observatory**

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Various methods of estimation of the muonic part of the signal observed in the surface Cherenkov detectors have been developed within the Pierre Auger Collaboration in the recent years. Muon shower content, derived from data with these methods, is larger in comparison with predictions of QGJSET II and EPOS 1.99 interaction models. The zenith angle dependence of the muon deficit in simulations with respect to data is discussed.

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