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Centrality determination and multiplicity fluctuations in Ar+Sc collisions at CERN SPS from NA61/SHINE

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The preliminary centrality determination procedure and charge hadron multiplicity fluctuations are investigated in the new Ar+Sc data at 13A, 19A, 30A, 40A, 75A, 150A GeV/c with NA61/SHINE at the SPS. The centrality analysis is based on nucleon-spectator energy in the forward hemisphere from the Projectile spectator detector. The scaled variance for all, negatively and positively charged hadrons is presented for different centrality classes. Results are discussed and compared with p+p and Be+Be NA61/SHINE data and the EPOS 1.99 simulations.

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