

XIV Polish Workshop on Relativistic Heavy-Ion Collisions: Interplay between soft and hard probes of heavy-ion collisions



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Multi-particle azimuthal correlations and flow in pp and $p+Pb$ collisions with the ATLAS detector at the LHC

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The long-range azimuthal correlations in the nucleus-nucleus collisions are one of the signals of creation of the Quark-Gluon Plasma. At the LHC energies similar correlations are observed also in $p+Pb$ and even pp collisions. After several years of successful operation of the Large Hadron Collider a wealth of data on pp , $p+Pb$ and $Pb+Pb$ collisions is available. This makes possible detailed studies of different aspects of the azimuthal correlations. The ATLAS experiment studied extensively the subevent cumulant methods which allow to remove non-flow correlations, especially in the events with low multiplicity like those in pp and $p+Pb$ collisions. Most recently the elliptic flow in Z-boson tagged pp collisions was also measured.

Primary author: WOZNIAK, Krzysztof Wieslaw (Polish Academy of Sciences (PL))

Presenter: WOZNIAK, Krzysztof Wieslaw (Polish Academy of Sciences (PL))

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