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Review of Predictions for Production of Hard Probes in p+Pb Collisions at $\sqrt{s_{NN}} = 5.02$ and 8.16 TeV and Comparison With Data

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Predictions have been compiled for the p+Pb LHC runs, focusing on production of hard probes in cold nuclear matter [1-3]. These predictions were first made for the $\sqrt{s_{NN}} = 5.02$ TeV p+Pb run [1] and were later compared to the available data in Ref. [2]. A similar set of predictions were published for the 8.16 TeV p+Pb run in Ref. [3].

In this talk, we review a selection of the predictions at the two energies, comparing them to the available data and with each other to study the quality of the predictions as well as their energy dependence.

[1] J. Albacete *et al.*, Int. J. Mod. Phys. E **22** (2013) 1330007.

[2] J. Albacete *et al.*, Int. J. Mod. Phys. E **25** (2016) 1630005.

[3] J. Albacete *et al.*, Nucl. Phys. A **972** (2018) 18.

Additional comments

Invited abstract

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