

## New Trends in High-Energy Physics



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### Recent results with ALICE experiment

The ALICE experiment is dedicated to study the hot and dense nuclear matter created in heavy ion collisions at the Large Hadron Collider. A crucial part of the ALICE physics programme is to study small colliding systems like proton-proton and proton-lead collisions and compare them with heavy ion collisions in order to disentangle effects coming from individual nucleon-nucleon interactions or from cold nuclear matter. Recent results from the small systems revealed that several effects that were thought to be unique to large collision systems are also observed in small systems, i.e. that there is no strict border between small and large system collisions. Recent results from large collisional systems (Xe-Xe, Pb-Pb) and from small collisional systems (pp, p-Pb) at various energies measured by ALICE will be reported.

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