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## Search for critical effects in NA61/SHINE

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NA61/SHINE is a multi-purpose experiment to study hadron-proton, hadron-nucleus and nucleus-nucleus collisions at the CERN Super Proton Synchrotron. The experiment performs unique measurements for the physics of strong interactions as well as important reference measurements for neutrino and cosmic-ray physics.

The primary goals of the experiment are the study of the onset of deconfinement and the search for the critical point of the strongly interacting matter, to uncover the mechanism of thermalisation and to test the validity of statistical models. For this purpose, a two-dimensional scan was performed by varying the beam momentum ( $13A-158A$  GeV/ $c$ ) and the size of colliding systems (p+p, Be+Be, Ar+Sc, Xe+La, Pb+Pb).

Recent NA61/SHINE results on the search for critical effects in spectra and fluctuations including an indication for the onset of thermalisation with an increasing nuclear mass number of the colliding nuclei - the onset of fireball, and a hint of intermittent fluctuations of protons in collisions of medium size nuclei at the top SPS energy will be presented within this contribution.

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