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Recent results from NA61/SHINE on the onset of deconfinement studies and particle production

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NA61/SHINE at the CERN SPS is a fixed-target experiment pursuing a rich physics program. The main goal of the NA61 ion program is to explore the most interesting region of the phase diagram of strongly interacting matter. Within the expected ($T - \mu_B$) interval we plan to study the properties of the onset of deconfinement and to search for the signatures of the critical point. Such a 2D scan of the phase diagram is performed by varying beam momentum (13A-150(8)A GeV/c) and system size (p+p, p+Pb, Be+Be, Ar+Sc, Xe+La, Pb+Pb).

Thanks to its large acceptance and reasonable particle identification NA61/SHINE is well-suited for studies of particle production mechanisms. In this contribution results on the onset of deconfinement as well as on particle production will be reported.

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