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From cold to hot nuclear matter

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We discuss the properties of nuclear matter at different conditions:
from “cold” at normal nuclear density to the very “hot” and
compressed state of Quark-Gluon-Plazma. Those conditions are realized
at relativistic proton-nucleus and heavy-ion collisions.
As a “tool” for our study we use the Parton-Hadron-String Dynamics (PHSD)
microscopic transport approach, which elaborates the partonic and hadronic dynamics,
and investigate the constraints which can be obtained from experimental observables on the
EoS (equation-of-state) of nuclear matter, the baryon potential
and in-medium properties of the hadrons.

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