

LABORATORI NAZIONALI DEL GRAN SASSO

SEMINAR ANNOUNCEMENT

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***Matter in extreme
conditions***

We shall discuss in a simple and straightforward way some properties of matter at large densities. At very high baryonic densities the quark content of hadrons should be liberated and we have a system where the actual degrees of freedom are deconfined quarks and gluons. It is by now widely accepted that in these conditions quarks behave as a color superconductor and a "baryonic" superfluid, with very peculiar properties. We shall briefly discuss the relevance of this unusual phase of matter for compact stars.

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