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The moat regime in QCD

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We study the realtime QCD dynamics underlying the moat behavior in QCD at finite chemical potential, present at baryon chemical potentials with μB /T & 4. It originates from the Landau damping of quarks scattering in the vicinity of Fermi surface. The moat appears as peaks in the spectral functions for the pion and sigma modes at space-like momenta.

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