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Abstract for an Invited Paper  
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**QCD at non-zero temperature and density<sup>1</sup>**

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We explore 2+1 flavor QCD at non-zero temperature and density on the lattice. We find the phase boundary at chemical potential up to 300 MeV and explore how to probe the confinement transition using heavy quarkonium. We also show new results on the fluctuations of baryons at finite chemical potential.

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