



Contribution ID: 207

Type: **Talk**

### **Pion condensation and the QCD phase diagram at finite isospin density**

*Friday, August 3, 2018 3:20 PM (20 minutes)*

In this talk I will discuss various aspects of pion condensation at finite temperature and density. At  $T=0$ , the phase diagram will be mapped out in the  $\mu_I$ - $\mu_B$  plane, and we will discuss the competition between an inhomogeneous chiral condensate and a pion condensate. At finite  $T$ , we map out the phase diagram in the  $\mu_I$ - $T$  plane focusing on the deconfinement and chiral transitions as well as the onset of pion condensation. Comparison with recent lattice data will be made.

**Primary authors:** Prof. ANDERSEN, Jens Oluf (NYNU); Mr KNESCHKE, Patrick (UiS); Dr ADHIKARI, Prabal (St. Olaf College)

**Presenter:** Prof. ANDERSEN, Jens Oluf (NYNU)

**Session Classification:** Nuclear and Astroparticle Physics

**Track Classification:** F: Nuclear and Astroparticle Physics