



Contribution ID : 41

Type : **Talk**

## Locating the critical end point of QCD

*Monday, 25 July 2016 18:25 (20)*

I will give an overview on our recent results for the phase diagram of QCD with  $N_f=2+1$  and  $N_f=2+1+1$  flavors. We use a combination of lattice and Dyson-Schwinger methods to determine the chiral and deconfinement order parameters at finite temperature and chemical potential. In a recent exploratory study we also give a first estimate on the influence of baryon effects on the location of the critical end-point. As a result we find a critical end-point at large chemical potential in the vicinity of the chiral critical line extrapolated from lattice QCD.

**Primary author(s)** : Prof. FISCHER, Christian (JLU Giessen)

**Presenter(s)** : Prof. FISCHER, Christian (JLU Giessen)

**Session Classification** : Nonzero Temperature and Density

**Track Classification** : Nonzero Temperature and Density