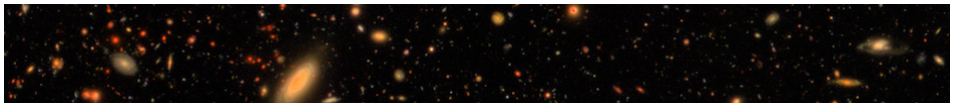

Contribution ID: **38** Type: **not specified**

A Catalogue of Hadronic Axion Models

I will report on or recent results on creating catalogues of hadronic, aka KSVZ, axion models. In particular, when phenomenological selection criteria are taken into account, we find a finite number of possible anomaly ratios E/N, and hence a finite number of hadronic axion models at any given mass. The number of different E/N values is between 12 and 820, depending on the amount of freedom allowed for charge assignments. I will comment on the ensuing distributions of the axion-photon coupling and the consequences for the detection of hadronic axion models. [arXiv:2107.12378]

Presenter: HOOF, Sebastian

Session Classification: Wednesday PM