

## Copernicus Webinar and Colloquium Series



Contribution ID: 256

Type: **not specified**

### **Back-reaction in the early universe**

*Tuesday, April 23, 2024 3:00 PM (1 hour)*

Both single- and multi-field models of inflation might lead to enhanced scalar fluctuations on scales much smaller than those seeding the large-scale structure formation. In these scenarios, it is possible that the spike of power at high wavenumber might induce large corrections to the scalar power spectrum, e.g. in the form of loop corrections, potentially endangering the perturbativity of the underlying models. In this talk we discuss recent developments in the calculation of the 1-loop correction.

**Presenter:** IACCONI, Laura (Queen Mary University of London & University of Portsmouth)