Contribution ID: **14**   Type: **not specified**

A worldline quantization approach to higher spin theories

Tuesday, 10 September 2019 16:30 (45 minutes)

Using the effective action method, we investigate the higher spin actions in flat spacetime that can be obtained by integrating out a fermion field coupled to external higher spin source fields. In particular, an approach based on worldline quantization allows to identify the gauge symmetry of these models and to find the L_infinity structure that characterizes many (classical) field theories, including closed string field theory. This structure is also found to be consistent with a Yang-Mills-like model, where a limited amount of non-locality plays a crucial role in granting the absence of ghosts at perturbative level.

Presenter: GIACCARI, Stefano (Holon Institute of Technology)