

# **Dynamics of the ISM in Galactic Spirals**

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I would like to review recent progress in theoretical pictures of structures and dynamics of the ISM under the effect of stellar spirals. I especially focus on interplay between the multi-phase ISM and live stellar spirals, based on multi-dimensional SPH and grid-based hydrodynamic/N-body simulations. I would like to enlighten essential difference between the classic “galactic shocks” and more realistic dynamical nature of the galactic spirals.