

## Coupled molecular benders modeling within the vibron model 2D limit

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The dynamics of two coupled molecular benders is studied making use of a two-fluid formulation of the 2D limit of the vibron model. The basics of the model, its classical limit, and its ground state phase diagram is presented. Possible applications of interest in the study of molecular spectra for molecular species with utterly different equilibrium structure as well as open lines of research on the excited state phase transition model structure are also sketched.