

At the VU Amsterdam, we are conducting Casimir force experiments in gaseous atmosphere. We are interested in understanding the interplay between different interaction mechanisms (e.g., Casimir effect, residual electrostatic force, hydrodynamic interactions). We are also developing new instruments for the measurements of surface forces in harsh environments (fiber-top and ferrule-top MEMS) and a new Casimir force experiment that aims at setting new limits on the existence of chameleon fields.