Fluid/Gas Dynamics

- Computational Fluid Dynamics (CFD) and Direct-Simulation Monte Carlo (DSMC) modeling of gases
- First-principle-based particle simulation algorithms for complex fluid problems – wind borne debris in tornado, particulates in advanced manufacturing

Plasma Science and Engineering

- High-fidelity kinetic modeling of plasmas
- Ground laboratory investigations of plasma phenomena for both ground and space applications – from advanced manufacturing to lunar surface exploration

Electric field at the lunar surface

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