

## **National Key Laboratory of Science & Technology on Test Physics and Numerical Mathematics.**

Resp. Dr. Shengjun Zhang

Lab focused on fundamental research and initial research on applications. Main topics to start cooperation (on some research projects, and building a cooperative research center, applying research project together, etc. ) are as follows:

- 1)electromagnetic scattering problems, including theory, computational methods and target signature and of space objects and their detection;
  - 2) optical and infrared radiation topics, from basics to application;
  - 3)topics on radar signal processing;
  - 4)topics on isar,sar, and rcs of materials and their mechanisms;
  - 5)topics on aerodynamics and aerothermal;
  - 6)topics on modelling, simulating of complex electromagnetic environment.
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## **CALT - China Academy of Launch Vehicle Technology**

Vice President: Dr. Wang, Guohui

Collaboration: to build Common Lab or Research Center.

They are interested in:

1. The Liquid Oxygen-Methane propellants Engine
2. Multi-nozzle plume and base heat prediction
3. The evaporation control of cryogenic propellant on orbit mission
4. The aerodynamics and heating of hypersonic vehicles
5. Advance technology for large tanks and structures production
6. Advance technology for telemetry and telecontrol.