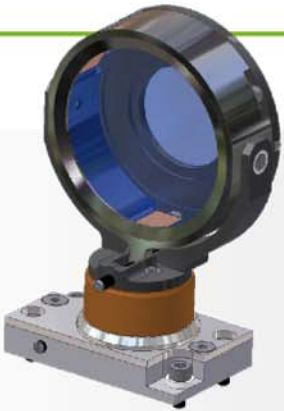
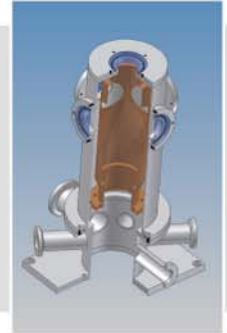


# RESEARCH, DEVELOPMENT & DESIGN



Lens holder for near infrared camera  
(working temp 30K)

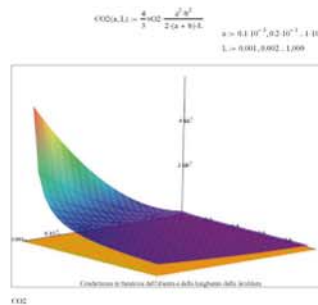
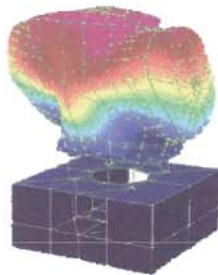
The engineering department can count on many years of design experience, and is able to develop and manage projects on several UHV applications such as cryogenics, superconductivity and solar-photovoltaic by using appropriate software for design, computation, analysis, and management planning. RIAL Vacuum can study and optimize the vacuum system design in order to decrease manufacturing costs and increase system performance.



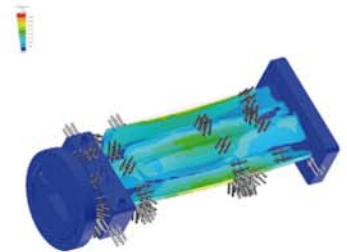
CERN close cycle cryostat (working temp 11K)



Monochromator for Grenoble ESRF: FEM vibration analysis



Conductance optimization mathematical model for  
superconducting equipment



FEM stress analysis for storage ring  
vacuum chamber