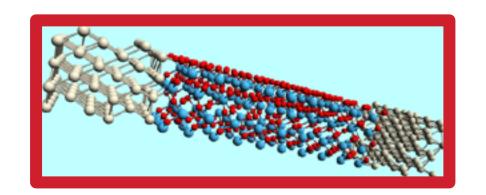
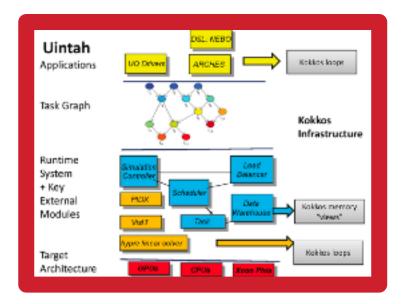
# Aurora ESP Projects S D L

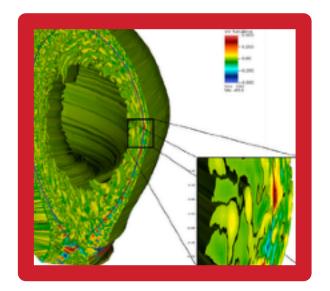


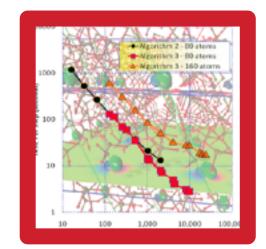


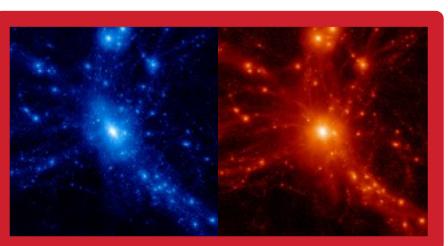


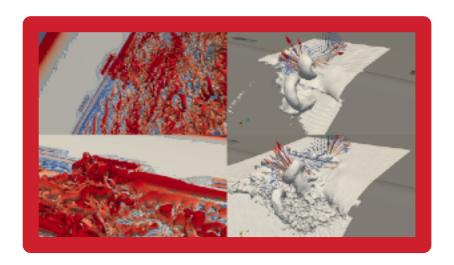


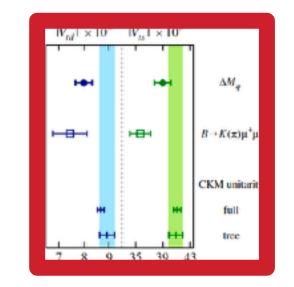


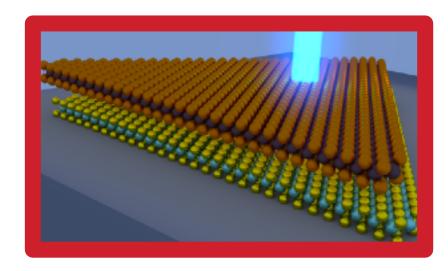


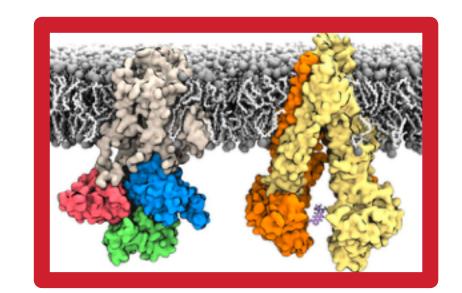


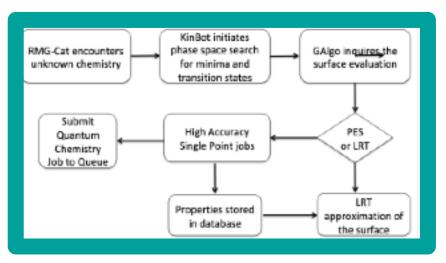


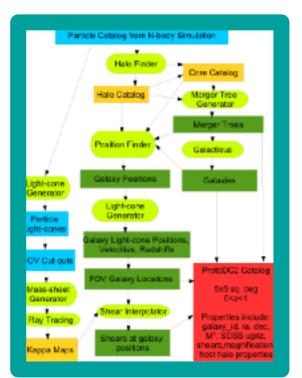


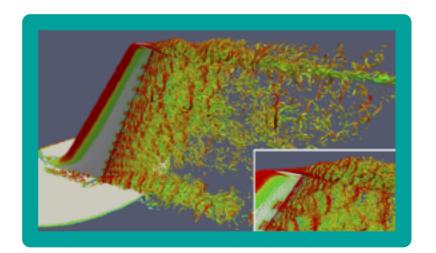


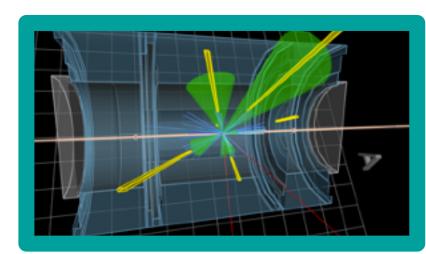


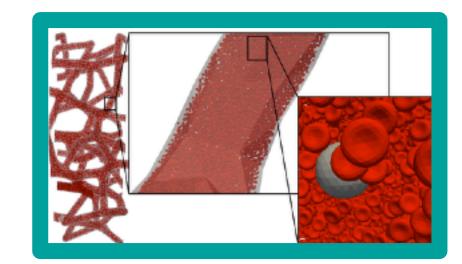


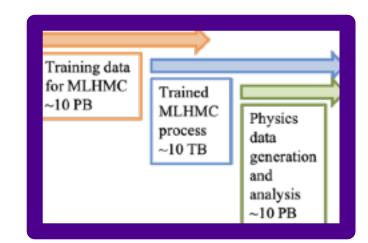




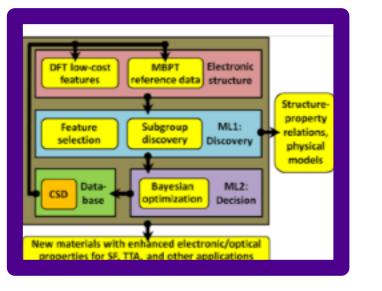


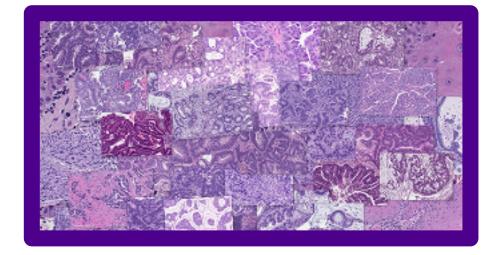


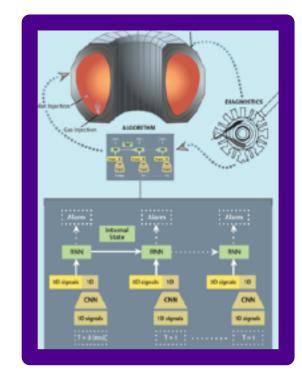














## **Aurora ESP Projects**







### **Anouar Benali** (ANL)

Extending Moore's Law computing with Quantum Monte Carlo

### Martin Berzins (U. Utah)

Design & evaluation of highefficiency boilers for energy production using a hierarchical V/UQ approach

### **CS Chang** (PPPL)

High fidelity simulation of fusion reactor boundary plasmas

### **Theresa Windus (Ames)**

NWChemEx: Tackling Chemical, Materials & Biochemical Challenges in the Exascale Era

#### **Katrin Heitmann** (ANL)

Extreme-Scale Cosmological Hydrodynamics

### Ken Jansen (U. Colorado)

Extreme Scale Unstructured Adaptive CFD: From Multiphase Flow to Aerodynamic Flow Control

### Norman Christ (Columbia)

Lattice Quantum
Chromodynamics Calculations
for Particle and Nuclear Physics

### **Aiichiro Nakano** (USC)

Metascalable Layered Materials Genome

# Benoit Roux (U. Chicago)

Free Energy Landscapes of Membrane Transport Proteins

### **David Bross** (ANL)

KinBot initiates

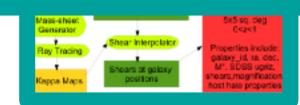
Exascale Computational Catalysis

in database the surface



### **Salman Habib** (ANL)

Dark Sky Mining



### Ken Jansen (U. Colorado)

Data Analytics and Machine Learning for Exascale CFD



### **Walter Hopkins**(ANL)

Simulating and Learning in the ATLAS detector at the Exascale

### **Amanda Randles** (Duke U.)

Extreme-scale In Situ Visualization and Analysis of Fluid-Structure-Interaction Simulations

### Will Detmold (MIT)

Machine Learning for Lattice Quantum Chromodynamics

### **Nicola Ferrier** (ANL)

Enabling Connectomics at Exascale to Facilitate Discoveries in Neuroscience

### **Noa Marom** (CMU)

Many-Body Perturbation
Theory Meets Machine
Learning to Discover Singlet
Fission Materials

### **Rick Stevens** (ANL)

Virtual Drug Response Prediction

Bill Tang (Princeton)

Accelerated Deep Learning Discovery in Fusion Energy Science

