Workshop on
’Quantum and Many-Body Effects in Nanoscale Devices’
October 24-25, Arizona State University

PROGRAM

(under construction, * means presenting author)

1. James Adams:
   ”Density Functional Calculations of Bonding and Adhesion at Metal-Ceramic Interfaces”

2. M.P. Anantram:
   ”Role of scattering in nanotransistors”

3. M. Fischetti:
   ”Two-dimensional simulation of quantum electronic transport in small devices: A Master equation approach”

4. Carl Gardner:
   ”Electrodiffusion Model Simulation of Ionic Channels”

5. Irena Knezevic (*), D. Ferry:
   ”Non-perturbative treatment of the contact - active region in nanoscale devices”

6. H. Kosina:
   ’The Wigner Equation for Quantum Device Modeling’

7. M. Saraniti(*), S.M. Goodnick, S. Yamakawa, S.J. Aboud:
   ”Meshing up the Brillouin Zone: The CMC method for semiclassical transport simulation”

8. Paul von Allmen (*), Gerhard Klimeck, Seungwon Lee and Fabiano Oyafuso:
   ”Nanoelectronic Modeling of Si-based Quantum Computing Gates”