	Wednesday, October 25, 2017	
	Welcome Dinner *Hilton Garden Inn Riverhead* *7:00pm-9:00pm*	
	Thursday, October 26, 2017	
9:00am – 9:20am	Opening remarks by Robert Konik, BNL and Gabi Kotliar, BNL/Rutgers	
	Session: EXPERIMENTAL SITUATION	
9:20am – 9:40am	Talk: Experimental situation in FeSb2	Cedomir Petrovic, BNL
9:40am – 9:50am	Talk: Thermoelectric Properties of CoAsSb	Xiaoyan Tan, Rutgers
9:50am – 10:00am	Talk: Optical properties of the colossal thermopower material FeSb2	Chris Homes, BNL
10:00am – 10:15am	*COFFEE BREAK*	
10:15am – 10:25am	Talk: Lattice structure, dynamics and anomalous transport in FeSb2	Igor Zaliznyak, BNL
10:25am - 10:35am	Talk: ARPES on FeSb2 and CoSbS: progress report	Nader Zaki, BNL
10:35am – 10:50am	Discussion	
	Session: ELECTRONIC STRUCTURE DEVELOPMENTS	
10:50am - 11:05am	Talk: Ground state properties of 3d metals from self-consistent GW approach	Andrey L Kutepov, BNL
11:05am – 11:20am	Talk: Structural predictions for correlated electron materials using functional DMFT	Kristjan Haule, Rutgers
11:20am-11:35am	Talk: Correlated band insulator FeSb2: the role of local correlation beyond GW in the metal-insulator crossover	Sangkook Choi, BNL
11:35am – 11:50am	Talk: GW+G method and its application to FeSb2	Yongxin Yao, Iowa State University
11:50pm - 12:00pm	Discussion	
12:00pm – 1:30pm	*LUNCH*	
	Session: VALIDATION-- Material Design	
1:30pm – 1:45pm	Talk: Structure predictions, polymorphism and strong correlations	Vladan Stevanovic, NHMFL
1:45pm – 1:55pm	Talk: Statistical Analysis of Chances of Material Formation	Ran Adler, Rutgers
1:55pm-2:05pm	Talk: Study for material analogs of FeSb2: material design for thermoelectric materials	Chang Jong Kang, Rutgers
2:05pm – 2:25pm	Talk: In situ studies of Material Synthesis	Meigan Aronson, Texas A&M
2:25pm - 2:35pm	Discussion	
	Session: VALIDATION-- THEORETICAL SPECTROSCOPY	
2:35pm-2:50pm	Talk: Nature of the tensor order in the polar metal Cd2Re2O7	Mike Norman, ANL
2:50pm – 3:00pm	Talk: Cd2Re2O7: a spin-orbital coupled Hund's metal	Yilin Wang, BNL
3:00pm-3:15pm	Discussion	
3:15pm-3:30pm	*COFFEE BREAK*	
	Session: VALIDATION	

3:30pm – 3:40pm	Talk: Orbital-dependent correlations in PuCoGa5	Walber Hugo De Brito, BNL
3:40pm – 3:50pm	Talk: Signatures of Mottness and Hundness in archetypal correlated metals V2O3 and Sr2RuO4	Xiaoyu Deng, Rutgers
3:50pm – 4:00pm	Talk: Correlations driven isostructural phase transitions in AMnO3 - perovskites	Lucian Pascut, Rutgers
4:00pm – 4:30pm	**Discussion**	
	Session: NON EQUILIBRIUM – Landau Theories	
4:30pm - -4:45pm	Talk: Floquet Topolgical Systems	Aditi Mitra, NYU
4:45pm – 5:00pm	Talk: Nonequilibrium control of the electronic structure	Jong Han, U of Buffalo
5:00pm – 5:15pm	Talk: Two-particle response of the Hubbard model with DMFT	Alexei Tsvelik, BNL
5:15pm – 5:30pm	Discussion	
7:00pm – 9:00pm	*DINNER*	
	Friday, October 27, 2017	
	Session: MOLECULAR DYNAMCIS	
9:00am – 9:20am	Talk: Ab initio liquid water: a tale of two liquids	Marivi Fernandez-Serra, SBU
9:20am – 9:35 am	Talk: Gutzwiller molecular dynamics for strongly correlated systems: quantum quench of a Hubbard liquid	Gia-Wei Chern, U of Virginia
9:35am – 9:45am	Discussion	
9:45am – 10:00am	*COFFEE BREAK*	
	Session: Algorithms – Machine Learning	
10:00am – 10:20am	Talk: Hierarchical modeling of effective potential energies using a deep neural network	Kipton Barros, LANL
10:20am – 10:30am	Talk: Application of Novel Kernel Polynomial Method to Quantum Molecular Dynamics	Hidemaro Suwa, U of Tennessee
10:30am– 10:40am	Talk: Towards High-Throughput Computational Materials by Design of d-electron and f-electron Systems: Combining GA/RISB Theory with Machine Learning	Nicola Lanata, NHMFL
10:40am – 10:50am	Talk: Density-Matrix Embedding Theory and Rotationally Invariant Slave Bosons: a Unified Perspective and Finite Temperature Extensions	Tsung Han Lee, Rutgers
	Session: Software	
10:50am – 11:10am	Talk: The adaptable I/O System ADIOS	Scott Klasky, ORNL
11:10am – 11:20am	Talk: GPU acceleration of continuous-time quantum Monte-Carlo impurity solver	Patrick Semon, BNL
11:20am – 11:30am	Talk: Code usability and code development support	Huub Van Dam, BNL
11:30am	Meeting with the Advisory Board	
	Session: Real Time Solvers	
11:35am – 11:55am	Talk: Quasiparticles in two-band models for correlated materials	Karen Hallberg, CNEA
11:55am – 12:10pm	Talk: The density matrix renormalization group (DMRG) as a solver for cluster perturbation theory (CPT)	Adrian Feiguin, Northeastern
12:10pm – 12:20pm	Talk Interleaved numerical renormalization group as an efficient multiband impurity solver	Katherina Stadler, BNL
12:20pm – 12:30pm	Discussion	
12:30pm	*LUNCH*	