

Schedule

Monday, September 2nd

Welcome to Hilton Garden Inn Riverhead

7:00-
10:00

Evening Reception Banquet

Tuesday, September 3rd

7:30-
8:20

Breakfast

8:20-
8:30

Wei Ku

Welcome and opening comments

Introduction

8:30-
9:10

Paul Chu

The unusual superconducting morphology in Fe-based superconductors with unusually high T_c

Session 1 – Gap Symmetry and ARPES

9:10-
9:50

Hong Ding

ARPES studies of iron-based superconductors

9:50-
10:30

Donglai Feng

Governing factors of the superconductivity in iron based superconductors: an ARPES study

10:30-
10:40

Coffee Break

10:40-
11:20

Sergey
Borisenko

Gap anisotropies of iron-based superconductors from ARPES

11:20-
12:00

Walid Malaeb

Revealing the nodal gap structure in $(\text{Ba,K})\text{Fe}_2\text{As}_2$ by Laser ARPES

12:00-
1:30

Lunch

1:30-
2:10

Takasada
Shibauchi

Superconducting gap symmetry in BaFe_2As_2 -based superconductors

2:10-
2:50

Ruslan
Prozorov

Influence of controlled point disorder on normal and superconducting state properties of iron pnictides

2:50-
3:30

Maxim Khodas

Gap symmetry and Nodal structure of iron-based superconductors

3:30-
3:40

Coffee Break

Session 2 – Unusual Symmetry

3:40-
4:20

Jiangping Hu

Parity and Sign Change in Iron-Based Superconductors

4:20-
5:00

Wei-Cheng Lee

What happens inside a unit cell matters - Effects of Umklapp Process

5:00-
5:40

Chia-Hui Lin

Glide symmetry in Fe-based superconductors

5:00-
7:00

Discussion/Networking

7:00-
9:00

Dinner

Wednesday, September 4th

7:30-8:20	Breakfast	
Session 3 – Chalcogenides		
8:30-9:10	Lili Wang	High T_C superconductivity in single unit cell FeSe films on SrTiO ₃
9:10-9:50	Xingjiang Zhou	ARPES on Electronic Structure and High Temperature Superconductivity of the FeSe/SrTiO ₃ Films
9:50-10:30	Chao Cao	First principles study of vacancy-ordered iron-selenide superconductors
10:30-10:40	Coffee Break	
10:40-11:20	Thomas Maier	Spin-fluctuation mediated pairing in AFe ₂ Se ₂ and its consequences
11:20-12:00	Young-June Kim	Measuring instantaneous local moment with x-ray emission spectroscopy
12:00-1:30	Lunch	
Session 4 – Gap Symmetry		
1:30-2:10	Louis Taillefer	Change of pairing symmetry in the iron-arsenide superconductor KFe ₂ As ₂
2:10-2:50	Tzen Ong	A Fully Gapped Pairing Scenario for the Iron-Based Superconductors
2:50-3:30	Girsh Blumberg	Raman spectroscopy of multiband superconductors
3:30-3:40	Coffee Break	
Session 5 – Magnetism		
3:40-4:20	Dmytro Inosov	Peculiar magnetism of iron pnictides aside from superconductivity
4:20-5:00	Wei-Guo Yin	Magnetic and orbital orderings in iron chalcogenides
5:00-5:40	Tao Xiang	Electronic and magnetic structures of Fe selenide superconductors
5:40-7:00	Discussion/Networking	
7:00-9:00	Dinner	
Thursday, September 5th		
7:30-8:20	Breakfast	
Session 6 – More experiments		
8:30-9:10	Pengcheng Dai	Neutron polarization analysis as a probe of spin-orbital coupling in iron pnictide superconductors
9:10-9:50	Dao-Xin Yao	RIXS calculations on Iron-based superconductors and cuprates
9:50-10:30	Jennifer Hoffman	STM studies of Fe-based superconductors

10:30-10:40	Coffee Break	
Session 7 – Theory of Superconductivity		
10:40-11:20	Kazuhiko Kuroki	Interplay of multiple spin fluctuation modes in the iron based superconductors
11:20-12:00	Ryotaro Arita	Effect of electron-phonon interactions on orbital fluctuations in iron-based superconductors
12:00-1:30	Lunch	
Session 8 – Orbital, Nematicity, and Phonon		
1:30-2:10	Igor Zaliznyak	Ferro-orbital order and temperature-induced magnetism in iron telluride
2:10-2:50	Rafael Fernandes	Interplay between competing pairing states and nematicity in iron-based superconductors
2:50-3:30	Shuhua Liang	Nematic state of the pnictides induced by the inter-play between the spin, orbital, and lattice degrees of freedom
3:30-3:40	Coffee Break	
3:40-4:20	Wei Ku	Orbital/spin correlation and doping effects of disordered impurities
4:20-5:00	Belen Valenzuela	Coupling of the A_{1g} arsenide phonon to magnetism in iron pnictides
5:00-5:40	Zhiping Yin	Spin Dynamics and Superconductivity of Iron-based Superconductors: Realistic fully <i>ab initio</i> Many-Body Theory Calculations
5:00-7:00	Discussion/Networking	
7:00-9:00	Dinner	
Friday, September 6th		
7:30-8:20	Breakfast	
8:30-9:10	No talk arranged	
Session 9 – Correlated Physics		
9:10-9:50	Chris Homes	Scattering rate in iron-based superconductors
9:50-10:30	Johnpierre Paglione	Separation of antiferromagnetism and high-temperature superconductivity in $\text{Ca}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$ under pressure
10:30-10:40	Coffee Break	
10:40-11:20	George Martins	RPA analysis of a two-orbital model for the BiS_2 -based superconductors
11:20-12:00	Luca de' Medici	Selective Mottness as a key to iron superconductors
12:00-13:30	Lunch & Departure	