

# Applied Mathematics USRA Conference

Friday, August 15, 2014

M3 – 3103

Agenda:

8:45	<i>Coffee/tea &amp; cookies</i>
9:00	Divya Lala
	<b>Plankton Behaviour in Moving Fluids</b>
9:15	Martin Macgill
	<b>Magnetohydrodynamic Shallow-Water Equations for Waves in the Solar Tachocline</b>
9:30	Shawn Brunsting
	<b>Using Spark to Process Tweets</b>
9:45	Anthony Caterini
	<b>Speeding up Spotify's Big Data Recommendation System.</b>
10:00	Robert Gooding-Townsend
	<b>Modeling a new method of driving out bacterial plasmids</b>
10:15	Vincent Talbot
	<b>Critical transitions in human-environment systems</b>
10:30	<i>Coffee/tea &amp; cookies</i>
10:45	Jeff Barrett and Matt Smart
11:00	Sumeet Khatri
	<b>The Gaussian Optimization Conjecture for Fermionic Channels</b>
11:15	Peivand Sadat Mousavi
	<b>Bacterial Physiology: Effect of Temperature on Growth Rate</b>
11:30	Cameron Seth
	<b>Numerical Studies in Quantum Gravity</b>
11:45	Yuqing Tang
	<b>Superoscillatory functions</b>
12:00	James Hawley
	<b>Quantum Communication Complexity</b>
12:15	Brian Fernandes
	<b>Quantum Fluctuations During Inflation</b>
12:30	<i>Pizza lunch</i>