

Pre-conference program – Thursday 5 December

Lab tours: Tours of the EQuS labs at UQ have been scheduled from 3-5pm on Thursday the 5th of December. The meeting point for tours is the foyer of the Physics Annex (building 6) on UQ's St. Lucia campus (see location map attached)

Dinner and drinks: An informal get-together for dinner and drinks has been organized from 5:30pm on Thursday the 5th of December at Saint Lucy Caffè e Cucina on UQ's St. Lucia campus (see location map attached)

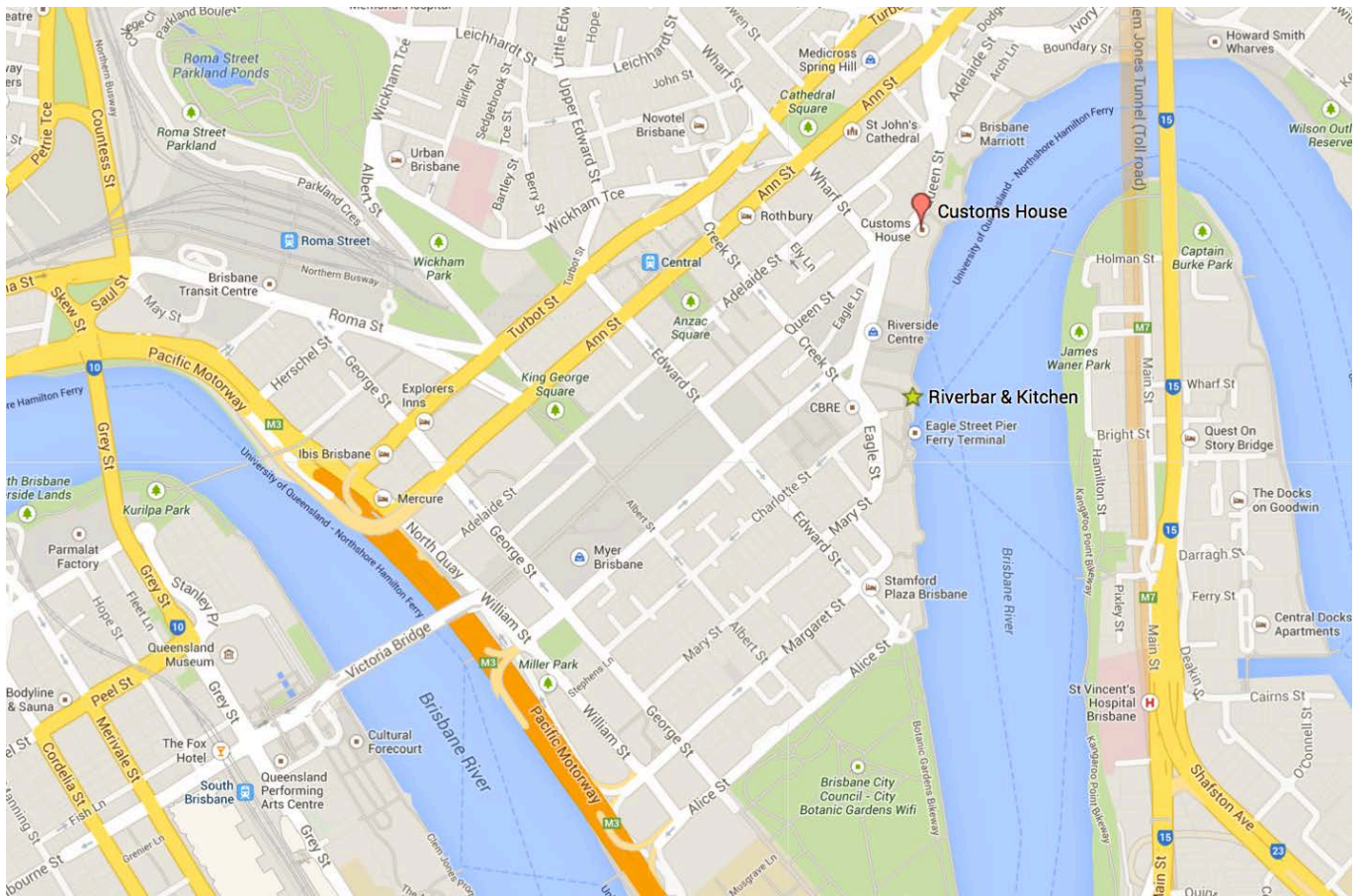
Conference program – Friday 6 December

TIME	EVENT	PRESENTER
8.00 – 9.00am	Coffee and Tea	
9.00 – 10.30am	Topical session: Quantum control and measurement Chair: Warwick Bowen	
9.00 – 9.30am	Reservoir engineering in quantum optomechanics	Aash Clerk, McGill
9.30 – 10.00am	Can non-QND measurement be back-action free? A long way from gravitational wave detection to back-action free quantum tomography	Stefan Danilishin, UWA
10.00 – 10.30am	Tomography of mechanical states using parametric amplification	Andrew Doherty, USyd
10.30 – 11.00am	Morning Tea	
11.00 – 12.15pm	Topical session: New experimental approaches Chair: Ping Koy Lam	
11.00 – 11:30am	High-Q macroscopic mechanical systems	Mike Tobar, UWA
11.30 – 12.00noon	Cooling by heating; and its implication on transient force sensing	Mahdi Hosseini, ANU
12.00 – 12.15pm	Quadratic optomechanics via measurement	George Brawley, UQ
12.15 – 2.15pm	Lunch and poster session	
2.15 – 3.15pm	Topical session: Tests of quantum mechanics Chair: Gerard Milburn	
2.15 – 2.45pm	Probing Planck-scale physics with quantum optics	Igor Pikovski, Vienna
2.45 – 3.15pm	From gravitational-wave detectors to tests of quantum mechanics	Rana Adhikari, LIGO Caltech
3.15 – 3.45pm	Afternoon Tea	
3.45 – 4.30pm	Topical session: Emergent phenomena Chair: Michael Vanner	
3.45 – 4.15pm	To be analytic or non-analytic - that is the question	Jason Twamley, MQ
4.15 – 4.30pm	Vibrationally enhanced quantum transport	Casey Myers, UQ
4.30 – 8.00pm	Informal drinks/dinner at the Riverbar and Kitchen, 71 Eagle St., Brisbane CBD.	

Location of Incubator and dinner/drinks

Incubator: Lady Thies Room
Customs House
399 Queen Street
Brisbane QLD 4001
(07) 3365 8999
customshouse.com.au

Dinner/drinks: Riverbar and Kitchen
71 Eagle St, Promenade
Level, Riparian Plaza
Brisbane CBD, Australia
(07) 3211 9020
riverbarandkitchen.com.au



Location of lab tours and dinner on Thursday

Lab tours: 3pm Thursday
Foyer, Physics Annex (bld 6)
University of Queensland
St Lucia

Dinner/drinks: 5.30pm Thursday
St Lucy Caffè e Cucina
Blair Drive
University of Queensland
St Lucia
07 5635 5980

