



***BIRS Workshop 05w5506  
New Directions in PDE  
July 2 - 7, 2005***



**MEALS**

Breakfast (Continental): 7:00 – 9:00 am, 2<sup>nd</sup> floor lounge, Corbett Hall – every day

\*Lunch (Buffet): 11:30 am – 1:30 pm, Donald Cameron Hall – every day

\*Dinner (Buffet): 5:30 – 7:30 pm, Donald Cameron Hall – every day

Coffee Breaks: As per daily schedule, 2<sup>nd</sup> floor lounge, Corbett Hall – Sunday - Friday

**\*Please remember to scan your meal card at the host/hostess station in the dining room for each lunch and dinner.**

**MEETING ROOMS**

**All lectures are held in the main lecture hall, Max Bell 159.** *Please note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155-159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverage in those areas.*

A free guided tour of The Banff Centre is offered to all participants and their guests on the first **Sunday** starting at 1:00 pm. The tour takes approximately 1 hour. Please meet in the 2<sup>nd</sup> floor lounge in Corbett Hall.

**Sunday, July 3:**

8:45 - 9:00	opening remarks
9:00 - 10:30	Nassif Ghoussoub
10:30 - 10:45	coffee
10:45 - 12:15	Raul Manasevich
12:15 - 2:00	lunch (and Banff Centre tour if interested)
2:00 - 2:25	Pedro Ubilla
2:30 - 2:55	Wolfgang Spitzer
3:00 - 3:25	Abbas Moameni
3:30 - 4:00	coffee
3:45 - 5:00	problem session (leaders: Nassif, Leo) and informal discussions



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**Monday, July 4:**

9:00 - 10:30	Marta Garcia-Huidobro
10:30 - 10:45	coffee
10:45 - 12:15	Ailana Fraser
12:15 - 2:00	lunch
2:00 - 2:25	Yu Yan
2:30 - 2:55	Boualem Khouider
3:00 - 4:00	coffee
3:15 - 5:00	problem session (leaders: Ailana, Yu) and informal discussions

**Tuesday, July 5:**

9:00 - 10:30	Gunther Uhlmann
10:30 - 11:00	coffee
11:00 - 11:25	Andrei Biryuk
11:30 - 11:55	Jens Rademacher
12:00 - 12:15	group photo
12:15 - 2:00	lunch
2:00 ->	discussions and/or hiking

**Wednesday, July 6:**

9:00 - 10:30	Stephen Gustafson
10:30 - 11:00	coffee
11:00 - 11:25	Slim Ibrahim
11:30 - 11:55	Vladislav Panferov
12:00 - 2:00	lunch
2:00 - 2:25	Pengtao Sun
2:30 - 2:55	Fridolin Ting
3:00 - 4:00	coffee
3:15 - 5:00	problem session (leader: Stephen) and informal discussions

**Thursday, July 7:**

Morning	informal discussions
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**Talk Titles:**

A. Biryuk	The Boltzmann equation in slab geometry
A. Fraser	Bubbling: minimal surfaces, harmonic maps and other variational problems
M. Garcia-Huidobro	TBA
N. Ghoussoub	TBA
S. Gustafson	Asymptotics and blowup in nonlinear Schroedinger equations
S. Ibrahim	On global and ill-posedness for a 2D NLS with exponential type nonlinearity
B. Khouider	Multicloud models for tropical convection and convectively coupled waves
R. Manasevich	Positive solutions for some quasilinear systems, existence, and nonexistence
A. Moameni	Blowup of positive solutions for a family of nonlinear parabolic equations in a general domain
V. Panferov	Regularity of solutions of the nonlinear Boltzmann equation
J. Rademacher	Absolute and convective instabilities of traveling waves in one space dimension
W. Spitzer	The relativistic Scott correction
P. Sun	Mech adaptivity method and its applications on PDEs' numerical simulation
F. Ting	Instability of pinned magnetic vortices
P. Ubilla	Positive solutions for a class of elliptic systems
G. Uhlmann	Inverse problems in anisotropic media
Y. Yan	Inverse mean curvature flow and its applications