

**PROGRAMME OF THE WORKSHOP ANALYTIC STUDY OF  
FLOWS IN PEYRESQ, JUNE 4-8TH 2018.**

**Monday:**

9h-9h15: Clara Aldana *Determinant of Laplacian on sectors*

9h30-10h30: Viet Dang *Ruelle zeta function and torsion, a survey of D. Fried's work*

11h-12h: Viet Dang *Ruelle zeta function and torsion, Fried and Morgado*

Lunch break

Afternoon: shorts talks

16h - 16h15: Julia Budde, *Wave-front set of representations*

16h15-16h30: Mihajlo Cekic, *Calderon problem for Yang-Mills connections*

16h45-17h: Hugo Federico, *Spectral gap for normally hyperbolic trapping*

17h-17h15: Luc Gossart, *Random hyperbolic dynamical systems*

17h45-18h: Malo Jezequel, *Hyperbolic Gevrey diffeomorphisms*

18h00-18h15: Thibault Lefeuvre, *Marked length spectrum of Anosov geodesic flows*

18h30-18h45: Benjamin Kuester, *Ruelle resonances on bundles over hyperbolic manifolds*

18h45-19h: Alejandro Rivera, *Nodal domains of random functions*

**Tuesday:**

9h-9h15: Amir Vig, *Spectral theory of the ellipse*

9h30-10h30: Tobias Weich, *Ruelle Resonances for cusps 1*

11h-12h: Yannick Bonthonneau, *Ruelle resonances for cusps 2*

Lunch

17h-19h: Shu Shen, *A geometric construction of the discrete series for semisimple Lie groups*, from the paper by Atiyah-Schmidt.

**Wednesday:**

9h-10h: Colin Guillarmou, *The scattering calculus of Melrose*, preparation for the paper of Uhlmann-Vasy.

10h30-11h30: Robin Graham, *The local X-ray transform 1*, from the paper of Uhlmann-Vasy.

11h30-12h30: Thibault Lefeuvre, *The local X-ray transform 2*, from the paper of Uhlmann-Vasy and Paternain-Salo-Uhlmann.

Afternoon : discussions/free afternoon.

**Thursday:**

9h-9h15: Jens Wittsen, *Random perturbations of a partially hyperbolic map*.

9h30-10h30: Malo Jezequel, *Spectral gaps without the pressure condition 1*, from the paper of Bourgain-Dyatlov

11h-12h: Benjamin Kuester, *Spectral gaps without the pressure condition 2*, from the paper of Bourgain-Dyatlov

Lunch and break

16h30-16h45: Khadim War, *Open dense sets of exponentially mixing Anosov flows*.

17h-19h: Fabricio Macia, *The Radon transform of Zoll surfaces*, from the article of V. Guillemin.

**Friday**

8h45-9h45: Gerhard Knieper, *The geodesic flow in non-positive curvature, 1*

10h-11h: Gerhard Knieper, *The geodesic flow in non-positive curvature, 2*