Program Schedule

June 15 (Monday)

10:30 - 10:40 Opening

10:40 - 11:20 **Takayoshi Ogawa** (Tohoku University, Japan)
Drift-diffusion system in critical space

11:30 - 12:10 **Andrea Cianchi** (Università di Firenze, Italy)
Bounds for eigenfunctions of the Laplacian on non-compact Riemannian manifolds

Lunch

13:40 - 14:20 **Futoshi Takahashi** (Osaka City University, Japan)
An eigenvalue problem related to blowing-up solutions for the Brezis-Nirenberg equation

14:30 - 15:10 **Paolo Salani** (Università di Firenze, Italy)
On a new kind of convexity for solutions of parabolic problems

Break

15:30 - 16:10 Short Communications, I

Tatsuya Watanabe (Osaka City University, Japan)
Singular positive solutions for a fourth order elliptic problem in $\mathbf{R}^N$

Virginia Agostiniani (SISSA Trieste, Italy)
Symmetry and stability in an overdetermined problem for the Green's function

16:20 - 17:00 Short Communications, II

Takahiko Chujo (Hiroshima University, Japan)
Hardy-Sobolev critical elliptic problems with multiple singular points

Norihisa Ikoma (Waseda University, Tokyo, Japan)
Nonlinear scalar field equations in $\mathbf{R}^N$
-a mountain pass approach-

18:00 - Welcome Party at AOSIS

June 16 (Tuesday)

10:00 - 10:40 **Yasuhito Miyamoto** (Tokyo Institute of Technology, Japan)
Stable patterns for shadow systems and a nonlinear "hot spots" conjecture

10:50 - 11:30 **Filippo Gazzola** (Politecnico di Milano, Italy)
Decay and eventual local positivity for biharmonic parabolic equations

11:40 - 12:20 **Kazuhiro Ishige** (Tohoku University, Japan)
Hot spots for the heat equation with a rapidly decaying negative potential

Lunch

13:40 - 14:20 **Tetsuya Ishiwata** (Shibaura Institute of Technology, Japan)
On the motion of polygonal curves by crystalline curvature flow with bulk effect

14:30 - 15:10 **Barbara Brandolini** (Università di Napoli "Federico II", Italy)
Some recent estimates for nonlinear Dirichlet eigenvalues

Break

15:30 - 16:10 Short Communications, III

Toru Kan (Tohoku University, Japan)
Bifurcations in semilinear elliptic equations on thin domains

Chiara Bianchini (Università degli studi di Firenze, Italy)
Geometric inequalities related to a Bernoulli free boundary problem

16:20 - 17:00 Short Communications, IV

Tatsuki Kawakami (Tohoku University, Japan)
On the heat equation in a half-space with a nonlinear boundary condition

Elvise Berchio (Politecnico di Milano, Italy)
Hardy-Rellich type inequalities with boundary terms and applications to semilinear biharmonic problems

June 17 (Wednesday)

10:00 - 10:40 **Shota Sato** (Tohoku University, Japan)
Forward self-similar solution with a moving singularity for a semilinear parabolic equation

10:50 - 11:30 **Roberta Volpicelli** (Università degli Studi di Napoli "Federico II", Italy)
On Hardy inequalities with a remainder term

11:40 - 12:20 **Shigeru Sakaguchi** (Hiroshima University, Japan)
A Liouville-type theorem for some Weingarten hypersurfaces

12:50 - 18:00 Excursion

June 18 (Thursday)

10:00 - 10:40 **Marino Belloni** (Università di Parma, Italy)
A variational characterization of the first eigenvalue of Δ_∞

10:50 - 11:30 **Eiji Yanagida** (Tohoku University, Japan)
Stabilization to equilibria in a supercritical semilinear heat equation

11:40 - 12:20 **Giorgio Talenti** (Università di Firenze, Italy)
On complex-valued 2D eikonals: continuation past a caustic

Lunch

13:40 - 14:20 **Michinori Ishiwata** (Muroran Institute of Technology, Japan)
Existence of maximizing functions for functionals of critical growth

14:30 - 15:10 **Cristina Trombetti** (Università di Napoli "Federico II", Italy)
Sharp estimates for linear Neumann eigenvalues and eigenfunctions

Break

15:30 - 16:10 **Kazunaga Tanaka** (Waseda University, Japan)
A local mountain pass type result for a system of nonlinear Schrödinger equations

16:20 - 17:00 **Andrea Malchiodi** (SISSA Trieste, Italy)
Minimal surfaces in CR manifolds

19:00 - Banquet

June 19 (Friday)

10:00 - 10:40 **Andrea Colesanti** (Università di Firenze, Italy)
Radial symmetry of solutions for an overdetermined boundary-value problem in exterior domains

10:50 - 11:30 **Tetsutaro Shibata** (Hiroshima University, Japan)
Asymptotic behavior of solutions to nonlinear elliptic eigenvalue problems

11:40 - 12:20 **Rolando Magnanini** (Università di Firenze, Italy)
Critical points of solutions of quasi-linear degenerate elliptic equations in the plane

12:25 - Closing