

## Argumentación del Jurado

“Dr. Pelayo is a very brilliant young mathematician working at the intersection of dynamical systems and symplectic geometry, with some interest in the geometric theory of PDE’s. In fact, the focus of Pelayo's research is “torus actions on symplectic manifolds”. He has a long list of papers, most published in very high level journals such as *Inventiones Mathematicae* and *Acta Mathematica*, showing the variety and importance of his contributions. He has really contributed at a very high level already at a very early stage of his career. We would like to highlight his manuscript with J.J. Duistermaat published in *Annales de l’Institut Fourier* 57, 2007. In this paper, they completely classify symplectic actions for which the generic orbit is coisotropic. In order to deal with non Hamiltonian symplectic actions, they develop new techniques, extending the theory of Atiyah, Guillemin, Sternberg, Delzant, and Benoist. He is the sole author of the work, published in *Memoirs of the American Mathematical Society* 2010, on symplectic actions of 2-tori on compact connected symplectic 4 manifolds. He has achieved a very important international visibility. He has collaborated with very high level colleagues in a very well defined program. Also he was invited speaker in several Conferences, Colloquia and Seminars; for example, Mathematics Department Colloquium (Yale University, 2008; and MIT Lecture Series, 2008); Northern California Symplectic Geometry Seminar (Stanford University, 2007); AMS Meeting Session on Toric Varieties (Rutgers University, 2007); Joint Mathematical Physics and Topology Seminar (Institut Fourier, France, 2007); Gauge Theory and Topology Seminar (Harvard University, 2007), etc...”