

# Singularities of Kähler-Einstein metrics

Projet ANR GRACK

Ecole Normale Supérieure, Paris, 29–31/10/18

While existence and uniqueness of Kähler-Einstein metrics on singular algebraic varieties is by now fairly well-understood, their precise behavior near the singularities remains a complete mystery in general. Quite recently, significant progress has however been made in special cases, in particular in fundamental works of S.Sun with S.Donaldson and H.Hein. This workshop proposes a series of mini-courses around this topic.

## Monday 29th October 2018

- 9h30-10h30: Eveline LEGENDRE (Toulouse)  
*Conical Kähler metrics 1*
- *Coffee break* [10h30-11h]
- 11h-12h: Martin DE BORBON (Aarhus)  
*Calabi-Yau manifolds with isolated conical singularities I.1*
- *Déjeuner* [12h-14h]
- 14h-15h: Sébastien BOUCKSOM (Polytechnique)  
*Algebraic tangent cones on Gromov-Hausdorff limits 1*
- *Coffee break* [15h-15h30]
- 15h30-16h30: Gilles CARRON (Nantes)  
*Calabi-Yau manifolds with isolated conical singularities II.1*

## Tuesday 30th October 2018

- 9h30-10h30: Eveline LEGENDRE (Toulouse)  
*Conical Kähler metrics 2*
- *Coffee break* [10h30-11h]
- 11h-12h: Martin DE BORBON (Aarhus)  
*Calabi-Yau manifolds with isolated conical singularities I.2*
- *Déjeuner* [12h-14h]
- 14h-15h: Sébastien BOUCKSOM (Polytechnique)  
*Algebraic tangent cones on Gromov-Hausdorff limits 2*
- *Coffee break* [15h-15h30]
- 15h30-16h30: Gilles CARRON (Nantes)  
*Calabi-Yau manifolds with isolated conical singularities II.2*

## Wednesday 31st October 2018

- 9h30-10h30: Sébastien BOUCKSOM (Polytechnique)  
*Algebraic tangent cones on Gromov-Hausdorff limits 3*
- *Pause-café* [10h30-11h]
- 11h-12h: Gilles CARRON (Nantes)  
*Calabi-Yau manifolds with isolated conical singularities II.2*