

## 第17回

- 講演者： **Andre Neves** 氏 (Princeton大学)
  - 題目□Foliations by constant mean curvature and inverse mean curvature flow on asymptotically hyperbolic 3-manifolds
  - 日時：平成19年1月25日（木）15:10～16:10

Asymptotically hyperbolic  $3$ -manifolds show up naturally in the context of general relativity. I will show that, provided the mass is positive, these manifolds admit a unique foliation by stable spheres with constant mean curvature. In analogy with asymptotically flat manifolds, we can also formulate a Penrose inequality and I will explain, contrarily to what was expected, why inverse mean curvature flow does not give a proof. This is joint work with Tian and the talk will be self contained.



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7 images

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