## Agol Lab Colloquium





## 19 May 2022 - 12:00 Salón de actos, CFTMAT

## Hyperbolic knots and links Ian Agol (University of California, Berkeley)

We will define and discuss hyperbolic knots and links, and explore what is known about the minimal volume links with various numbers of components.

**Ian Agol** (Los Angeles, 1970) is Full Professor at the Mathematics Department of the University of California (Berkeley), where he currently holds a Simons Chair. Agol's work revolves around the topology and geometry of three-dimensional manifolds, a vast area of research that is intimately linked to other fields of mathematics, notably group theory and the deformation theory of Riemann surfaces. Among his contributions, Agol has solved a number of fundamental long-standing conjectures, including the Marden's Tameness Conjecture (which in turn implies the Ahlfors' Measure Conjecture), Thurston's Virtual Haken and Virtual Fibering Conjectures.

Agol received the Breakthrough Prize in Mathematics in 2016, for his "spectacular contributions to low dimensional topology and geometric group theory". He has also been awarded the Oswald Veblen Prize in Geometry (2013), the Senior Berwick Prize of the London Mathematical Society (2012), and a Clay Research Award (2009). He has been ICM Speaker in two occasions: in 2014, as a Plenary Speaker; and in 2006, as an Invited Lecturer. He is a member of the National Academy of Sciences since 2016. He serves as editor at Journal of the AMS and Annals of Mathematics.













