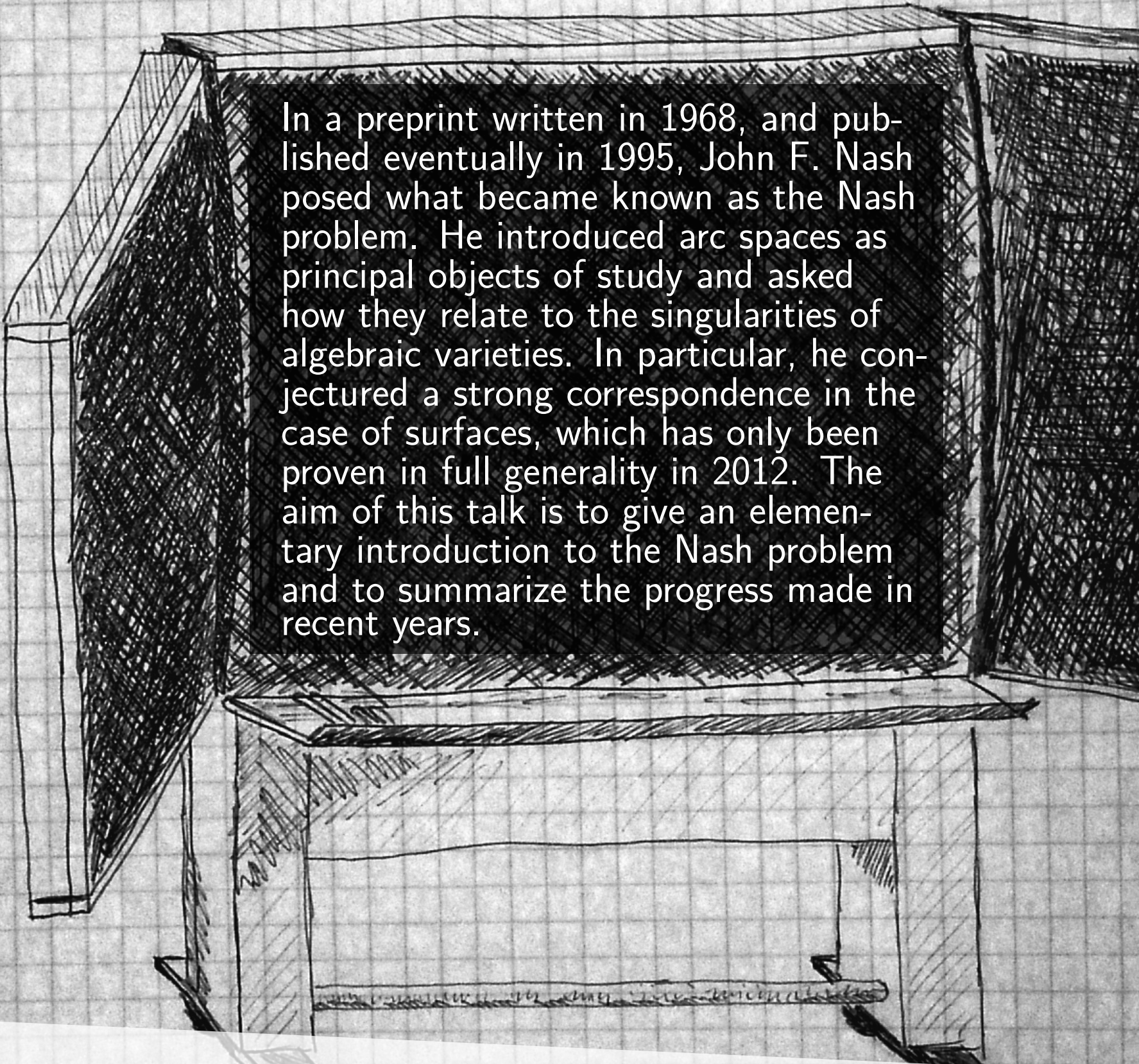


# PhD Colloquium

December 14<sup>th</sup> 2016, 15:00–15:45  
Seminar room 3

## Introduction to the Nash problem by Christopher Chiu



In a preprint written in 1968, and published eventually in 1995, John F. Nash posed what became known as the Nash problem. He introduced arc spaces as principal objects of study and asked how they relate to the singularities of algebraic varieties. In particular, he conjectured a strong correspondence in the case of surfaces, which has only been proven in full generality in 2012. The aim of this talk is to give an elementary introduction to the Nash problem and to summarize the progress made in recent years.

**Master Students, PhD Students, Postdocs  
and other members of the Faculty of  
Mathematics are cordially invited!**

Organised by the Vienna Doctoral School of Mathematics.