## Gábor Farkas

## Title: Counting maps with prescribed incidence conditions

Abstract: The question of computing the number of maps of fixed degree $d$ from a curve to a target variety $X$ and verifying $n$ incidence conditions can be viewed as a counterpart of the problem of determining the Gromov-Witten invariants of $X$. Using degeneration and Schubert calculus, we solve this problem when the target variety is the projective space of dimension $r$, and determine these numbers completely for linear series of arbitrary dimension when $d$ is sufficiently large. Our formulas generalize recent results of Tevelev and of Cela-Pandharipande-Schmitt. Joint work with C. Lian.

