

CASTS TALKS

CASTS Algebraic Geometry Summer Program

An introduction to Grothendieck topology and faithfully flat descent

Chi-Heng Lo

2018 - 07 - 20 (Fri.)

11:30 - 12:30

103, Mathematics Research Center Building (ori. New Math. Bldg.)

I will introduce the Grothendieck topology on categories and define sheaves and cohomologies under this topology. Then, I will introduce the concept of descent datum for quasi-coherent sheaves with respect to a covering and prove that all descent data for quasi-coherent sheaves with respect to a fpqc covering are effective. Finally, I will prove the Hilbert theorem 90 as an application.



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