

**UIC Model Theory Seminar, November 22, 2005**

**Borel ideals and isomorphism problem of Boolean algebras**

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We consider quotient Boolean algebras of the form  $P(N)/I$ , where  $I$  is an ideal on  $N$ , and their isomorphism types. Mike Oliver in his PhD dissertation proved that there are continuum many non-isomorphic such Boolean algebras induced by Borel ideals. In a joint work with Oliver we show that every analytic equivalence relation is Borel reducible to this isomorphism relation.