BOREL CANONIZATION AND UNIVERSALLY BAIRE SETS

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The problem of Borel canonization was introduced by Kanovei, Sabok and Zapletal . In the original setting given an Analytic equivalence relation E and an idea I on the reals. The problem is to find a Borel set B which is not in the ideal such that E restricted to B is Borel. In this generality the answer is "NO", but if we put some "nicety" conditions on I and an the equivalence relation I one can get a positive answer, assuming some large cardinals.(These results are due to W. Chan and O. Drucker, independently).

In the talk we shall survey some possible generalizations of these results. For instance when we assume that the relation E is universally Baire.(Some of the results are joint results with W. Chan.)

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