THE ABSTRACT DIRICHLET PROBLEM FOR BAIRE-ONE FUNCTIONS ON CHOQUET SIMPLICES

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ABSTRACT. Let X be a compact convex subset of a locally convex space. We show that any bounded Baire–one function defined on $\operatorname{ext} X$ can be extended to an affine Baire–one function on X if and only if X is a Choquet simplex and $\operatorname{ext} X$ is a Lindelöf H–set.

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