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Gaps in the poset of projections of the Calkin Algebra

We study the gap structure of the partial order of projections of the Calkin algebra of a separable infinite dimensional Hilbert space. We prove the existence of an analytic Hausdorff gap in this partial order. As a consequence we obtain that under Todorcevic's Axiom and MA the gap spectrum of $\mathcal{P}\big(\mathcal{C}(H)\big)$ is strictly bigger than the gap spectrum of $\mathcal{P}(\omega)/\operatorname{Fin}$.