# Powers of ghost ideals

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In this talk, the theory of infinite powers of ghost ideals is presented. A key tool developed in this theory is an ideal version of Eklof's Lemma. This theory is used to study Generalized Generating Hypothesis. In particular, (1) it is used to show a dual of a result of Xu: if the class of pure projective right R-modules is closed under extensions, then every FP-projective right R-module is pure projective; and (2) it is used to study the ghost ideal in the category of complexes. This is joint with S. Estrada, I. Herzog, and S. Odabasi.

# References

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