

**Title:** Turing computable embeddings

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**Abstract:** The notion of a *Turing computable embedding* is an effective analogue of the Borel embeddings used in descriptive set theory to compare classes of countable structures. This notion was explored in [1]. One line of inquiry from [1] is to give general characteristics for the classes that Turing computably embed into some mathematically interesting classes of structures (finite prime fields, finite linear orderings, vector spaces over the rationals, and a particular class of equivalence structures). I have continued this line of inquiry, and in this talk I will present new results characterizing the classes that Turing computably embed into the class of arbitrary equivalence structures and into classes of reduced Abelian  $p$ -groups of various lengths.

## References

- [1] J.F. Knight, S. Miller, and M. Vanden Boom, “Turing computable embeddings”, to appear in *The Journal of Symbolic Logic*.