VERY LARGE CARDINALS AND ORDINAL DEFINABILITY

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ABSTRACT. Motivated by the study of strong reflection principles, we introduce and study natural weakenings of the notion of Reinhardt cardinals that turn out to be compatible with the Axiom of Choice. We then show that the existence of such large cardinals has far-reaching consequences for the class HOD of all hereditarily ordinal definable sets. This is joint work in progress with Juan P. Aguilera and Joan Bagaria.