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Dwight Anderson Williams II* (dwight@iastate.edu) and **Jonas T. Hartwig**. *The diagonal reduction algebra of $\mathfrak{osp}(1|2)$* . Preliminary report.

Reduction algebras associated to a pair of Lie algebras $(\mathfrak{G}, \mathfrak{g})$ have been shown to act irreducibly on the space of primitive vectors of certain \mathfrak{G} -modules. The role of reduction algebras extends to the super case: Here we consider the diagonal reduction algebra of the pair of Lie superalgebras $(\mathfrak{osp}(1|2) \times \mathfrak{osp}(1|2), \mathfrak{osp}(1|2))$ as a double coset space having an associative diamond product and give generators with relations. (Received March 09, 2021)