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Hisham Sati* (hisham.sati@yale.edu). *Connected covers of O and U , and Fivebrane structure.*

We consider connected covers of O and U and define the notion of Fivebrane structure, generalizing the notion of String structure. Such a structure appears in anomaly formulas in string theory and the characterization of a twisted version of which uses some results of W. Singer. (Received August 19, 2008)