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Weighted moduli space of binary sextics.

In this talk we will introduce the weighted moduli space $\mathcal{W}P^3_{(2,4,6,10)}(\mathbb{Q})$ of binary sextics and create a database of points in $\mathcal{W}P^3_{(2,4,6,10)}(\mathbb{Q})$ of small weighted moduli height. We will use this database to study how many of the points with bounded moduli height are fine moduli points and how many are obstruction points. (Received January 17, 2018)