Abstract. In the early 90’s, Fulton and MacPherson provided a natural and beautiful way of compactifying the configuration space \( F(X, n) \) of \( n \) distinct labeled points in an arbitrary nonsingular variety. In this talk, I will present an alternate compactification of \( F(X, n) \), which generalizes the work of Fulton and MacPherson. The construction that I will introduce is parallel to Hassett’s weighted generalization of the moduli space of \( n \)-pointed stable curves. After discussing the main properties of this new compactification, I will give a presentation of its intersection ring and as an application, I will describe the intersection ring of Hassett’s spaces in genus 0.