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Rafael S. Gonzalez D'Leon and **Michelle L. Wachs*** (wachs@math.miami.edu). *Weighted bond posets and graph associahedra*. Preliminary report.

We consider a weighted version of the bond lattice of a graph. This generalizes the poset of weighted partitions introduced by Dotsenko and Khoroshkin and studied in previous papers of the authors. We show that for cordal graphs, each interval of the weighted bond poset has the homotopy type of a wedge of spheres, and we present an intriguing connection with h-vectors of graph associahedra studied by Postnikov, Reiner and Williams, and others. For linear graphs, there is also an interesting connection with parking symmetric functions. (Received August 25, 2015)