

- ▶ GUOHUA WU, *Cupping and Diamond Embeddings: A Unifying Approach*.  
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In this paper, we prove that for any nonzero cappable degree  $\mathbf{c}$ , there is a d.c.e. degree  $\mathbf{d}$  and a c.e. degree  $\mathbf{b} < \mathbf{d}$  such that  $\mathbf{c}$  cups  $\mathbf{d}$  to  $\mathbf{0}'$ , caps  $\mathbf{b}$  to  $\mathbf{0}$  and for any c.e. degree  $\mathbf{w}$ , either  $\mathbf{w} \leq \mathbf{b}$  or  $\mathbf{w} \vee \mathbf{d} = \mathbf{0}'$ . This result has several well-known theorems as direct corollaries, including Arslanov's cupping theorem, Downey's diamond theorem, Downey-Li-Wu's complementation theorem, and Li-Yi's cupping theorem, etc.