

- CHENGLING FANG, JIANG LIU, GUOHUA WU, *Cupping and Diamond Embeddings: A Unifying Approach*.  
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We will prove that for any nonzero cappable degree  $\mathbf{c}$ , there is an almost universal cupping 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  $\mathbf{b}$  isolates  $\mathbf{d}$  in the d.c.e. degrees. Here we say that a d.c.e. degree  $\mathbf{d}$  has almost universal cupping property, if it cups all c.e. degrees not below  $\mathbf{d}$  to  $\mathbf{0}'$ . This result can have several well-known theorems as direct corollaries, including Arslanov's cupping theorem, Downey's diamond theorem, Downey-Li-Wu's complementation theorem, Li-Yi's cupping theorem, etc.