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The jump of an ideal of degrees

For each Turing degree \mathbf{a} , define $\text{JB}(\mathbf{a}) = \{\mathbf{x}' : \mathbf{x} \leq \mathbf{a}\}$. We show that not every r.e. \mathbf{a} is uniquely determined by $\text{JB}(\mathbf{a})$. The definition of JB is motivated by a possible attack on the rigidity problems for \mathcal{R} and \mathcal{D} ; our theorem thwarts one version of this attack. This is joint work with Richard Shore.