DAVID BELANGER, Cornell University

The jump of an ideal of degrees

For each Turing degree \( a \), define \( JB(a) = \{ x' : x \leq a \} \). We show that not every r.e. \( a \) is uniquely determined by \( JB(a) \). 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.