Su Gao and Michael Ray Oliver* (mike.r.oliver@gmail.com), 2049 Kent Drive, Los Altos, CA 94024. Complexity of the isomorphism relation on quotient Boolean algebras.

In my dissertation I proved that there are continuum-many Boolean algebras of the form $\mathcal{P}(\omega)/\mathcal{I}$, where $\mathcal{I}$ is a Borel ideal on $\omega$. In fact somewhat more was proved, namely that the Borel equivalence relation $E_0$ was reducible to the isomorphism relation on such Boolean algebras.

Gao and I extended the result to show that any Borel equivalence relation whatever is reducible to this isomorphism relation. This talk sketches the proof and focuses on the role of certain ideals derived from other ideals, in a manner definable in their quotient Boolean algebras. (Received March 08, 2011)