**Pd-Catalyzed Asymmetric Conjugate Addition of Arylboronic Acids to Cyclic Enones**

**Significance:** The authors report the first asymmetric palladium-catalyzed 1,4-addition of phenylboronic acids to β-substituted cyclic enones to construct quaternary centers in high yields and generally good enantioselectivities. The method is general for five-, six-, and seven-membered enones. Furthermore, a variety of electronically rich and poor arylboronic acids can be employed with moderate to excellent yields and fair to excellent asymmetric induction. Various substitution patterns at the β-position of the cyclic enones are tolerated without substantial loss of yield or enantioselectivity.

**Comment:** Although there are many related transformations, this is the first palladium-catalyzed variant for the construction of quaternary stereocenters in high yields and enantioselectivities. The ease with which the ligand can be synthesized is also noteworthy [the (S)-t-BuPyOX ligand can be prepared in two synthetic steps from commercially available materials]. The methodology exhibits broad functional group tolerance and can be performed in the presence of both air and water. This could prove to be a very useful contribution to the field.