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Metal-free hydrogenation ...

... of unfunctionalized olefins is described by Z. H. Li, H. Wang and co-workers in their Communication on page 7496 ff. Highly Lewis-acidic hydroborane $\text{HB}(\text{C}_6\text{F}_5)_2$ was employed as the catalyst. The key step in the catalytic reaction is proposed to involve a borane-mediated σ -bond metathesis through a four-membered ring transition state which resembles the traditional Chinese residential house, Siheyuan, shown in the middle of the picture.

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