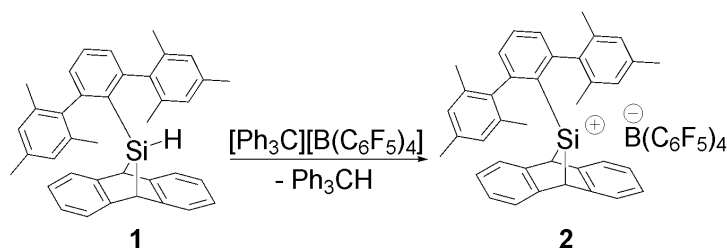


## 7-Silanorbornadienyl Cations and their Thermal Rearrangement

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We report here on the synthesis and characterization of the first terphenylsubstituted 7-hydrido-7-silanorbornadiene **1**. In addition we present the hydrid transfer reaction of **1** with trityltetrakis(pentafluorophenyl)borate to give the corresponding 7-silanorbornadienyl cation **2** (Scheme 1).



Scheme 1

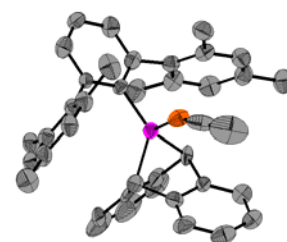
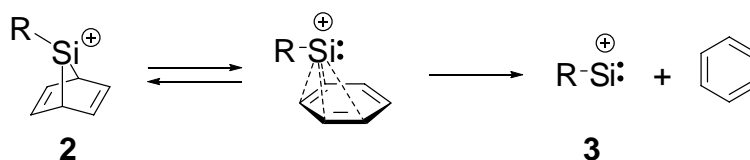


Figure 1: CD<sub>3</sub>CN stabilized 7-silanorbornadienyl cation **2**

Recently we suggested that 7-silanorbornadienyl cations such as **2** are suitable precursors to prepare silyliumylidenes  $\text{RSi}^+ \text{3}$ , monovalent positively charged silicon species with a lone pair and two vacant p-orbitals at the silicon atom.<sup>[1]</sup> We also present the preliminary results of the thermal rearrangement of cation **2** (Scheme 2).



Scheme 2

[1] T. Müller, *Organometallics* **2010**, 29, 1277.