

## Fabrication of the SQUID with Nb/Ru/Sr<sub>2</sub>RuO<sub>4</sub> junction

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We have fabricated Nb-Sr<sub>2</sub>RuO<sub>4</sub> hybrid dc superconducting quantum interference devices (SQUIDs) using a Nb/Ru/Sr<sub>2</sub>RuO<sub>4</sub> junction. The superconducting loop is composed of Nb, Sr<sub>2</sub>RuO<sub>4</sub> and two Nb/Ru/Sr<sub>2</sub>RuO<sub>4</sub> junction, and made by building a Nb bridge between two individual Ru microinclusions at the *ab*-plane surface of the Ru-Sr<sub>2</sub>RuO<sub>4</sub> eutectic system. We measure the supercurrent between Nb and Sr<sub>2</sub>RuO<sub>4</sub> part of the SQUID, which oscillates with every flux quantum through the SQUID loop.