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## **Electric field induced second harmonic generation from silicon/silicon dioxide interfaces of silicon membranes**

A femtosecond laser is used to study second harmonic generation in reflection and for the first time in transmission using a silicon membrane sample. The second harmonic signal measured in transmission is higher than expected and a new interpretation of second harmonic generation results from silicon/silicon dioxide interfaces is proposed.

**Primary author:** Mr NYAMUDA, Gibson Peter (Stellenbosch University)

**Co-authors:** Dr STEENKAMP, Christine (Stellenbosch University); Prof. ROHWER, Erich (Stellenbosch University); Prof. STAFAST, Herbert (Institute of Photonic Technology)

**Presenter:** Mr NYAMUDA, Gibson Peter (Stellenbosch University)

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