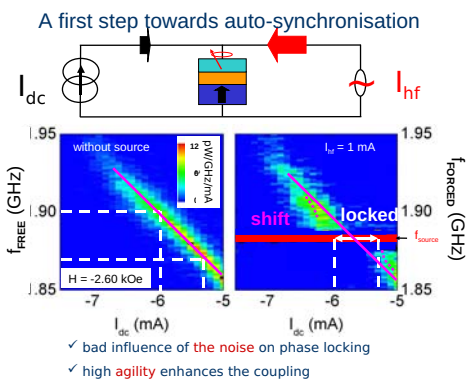


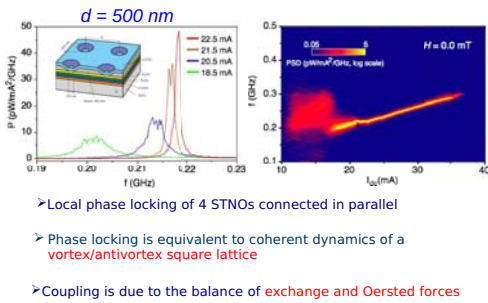
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1. Synchronisation of STO oscillators:



Experimental observation of synchronisation between STNOs



2. Comparison between current-driven and field-driven oscillations:

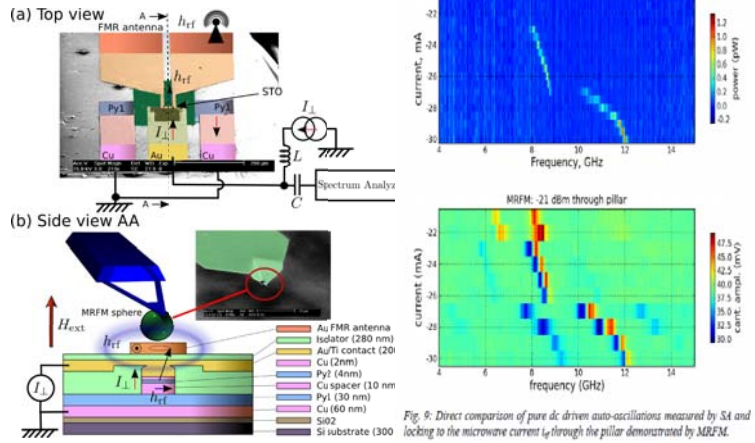


Fig. 9: Direct comparison of pure dc driven auto-oscillations measured by S4 and locking to the microwave current I_{hf} through the pillar demonstrated by MRFM.

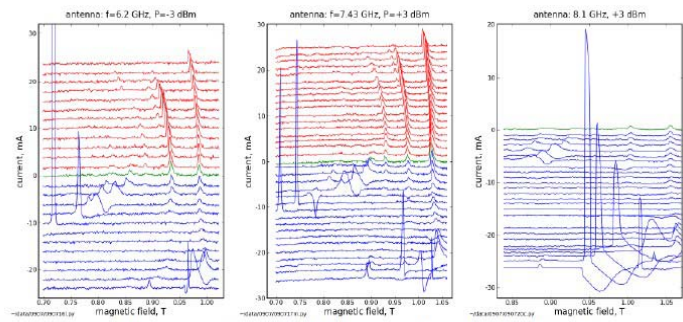


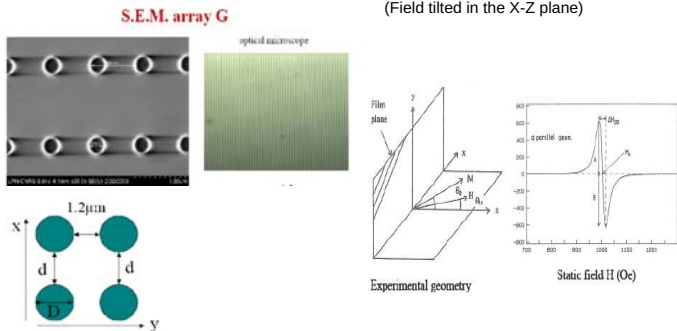
Fig. 5: Effect of a dc current on the standard-FMR spectra obtained at three different frequencies.

3. Dynamics of large rectangular array:

FMR of a rectangular array of circular Py dot:

Technique: cavity-FMR (Field tilted in the X-Z plane)

Evidence for a new collective mode of lower energy (M0)



Spectra in perpendicular geometry for the configuration GX

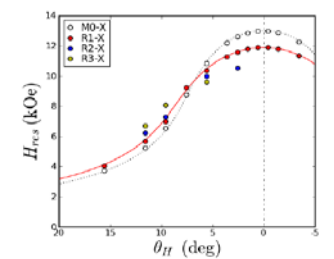
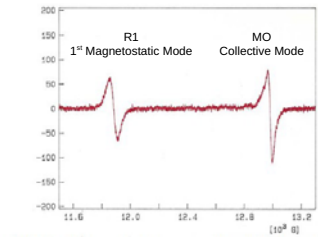


Fig. GXHres : angular variation of Hres for the mode M0 and the resonances R1, R2, R3. The continuous curve (R1) and the dotted curve (M0) are theoretical fits.

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