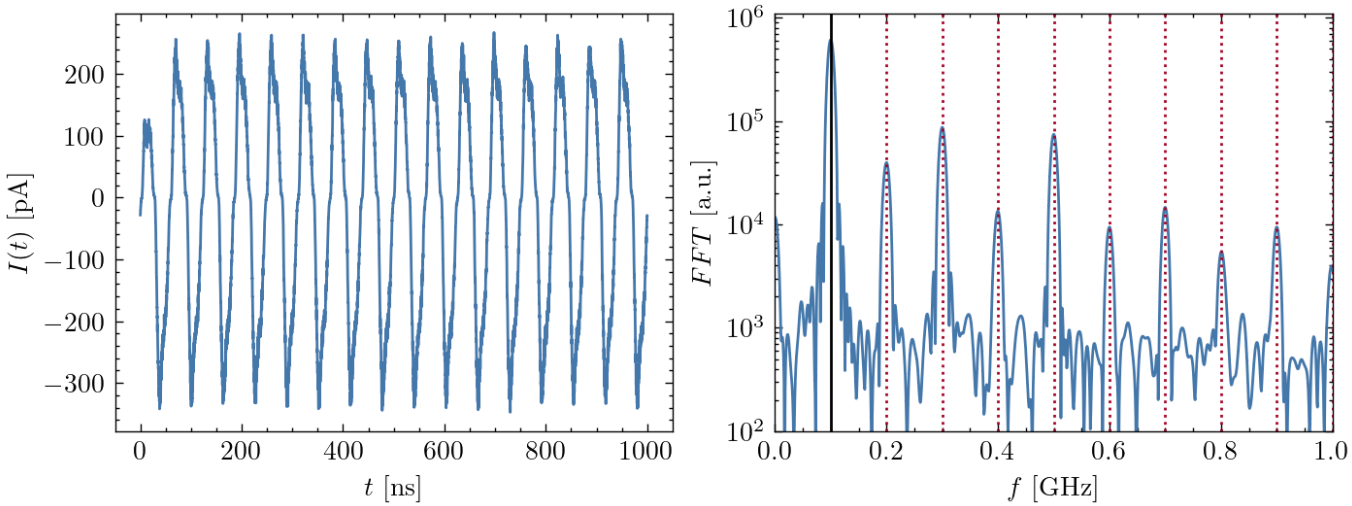


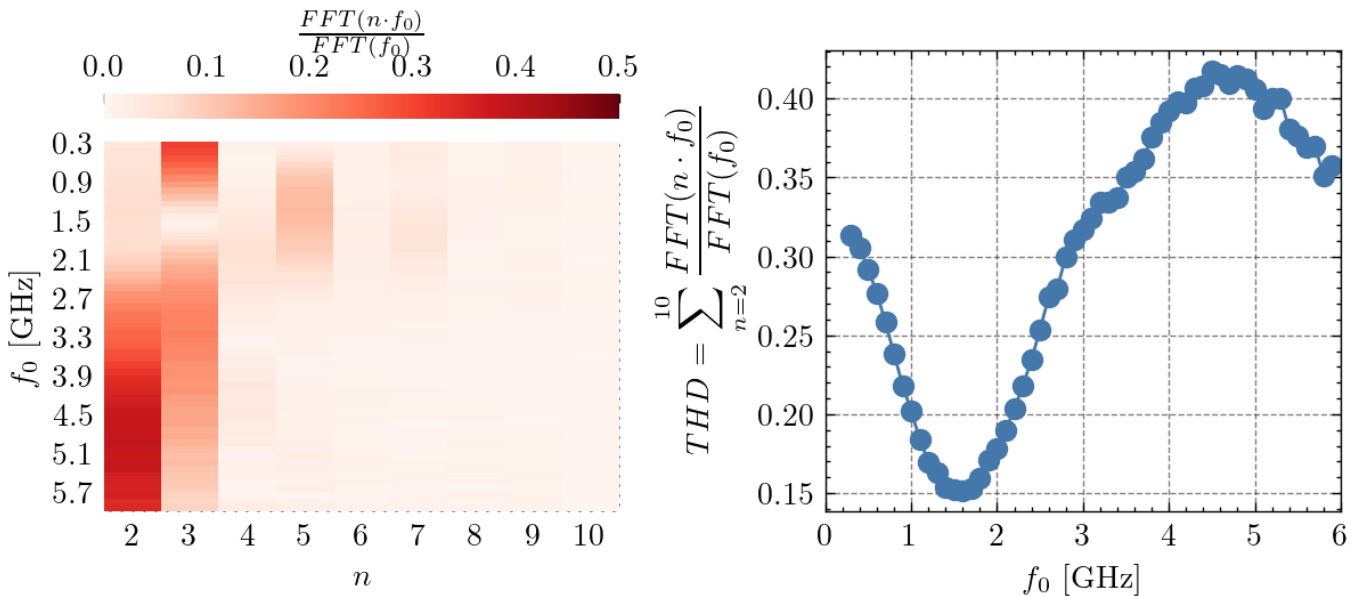
# Higher Harmonics

For a uniform  $N_{\text{NP}}$  network with two electrodes we apply a cosine input voltage signal to one electrode and measure the output electric current. The cosine is defined by its frequency  $f_0$ . The output contains higher harmonics



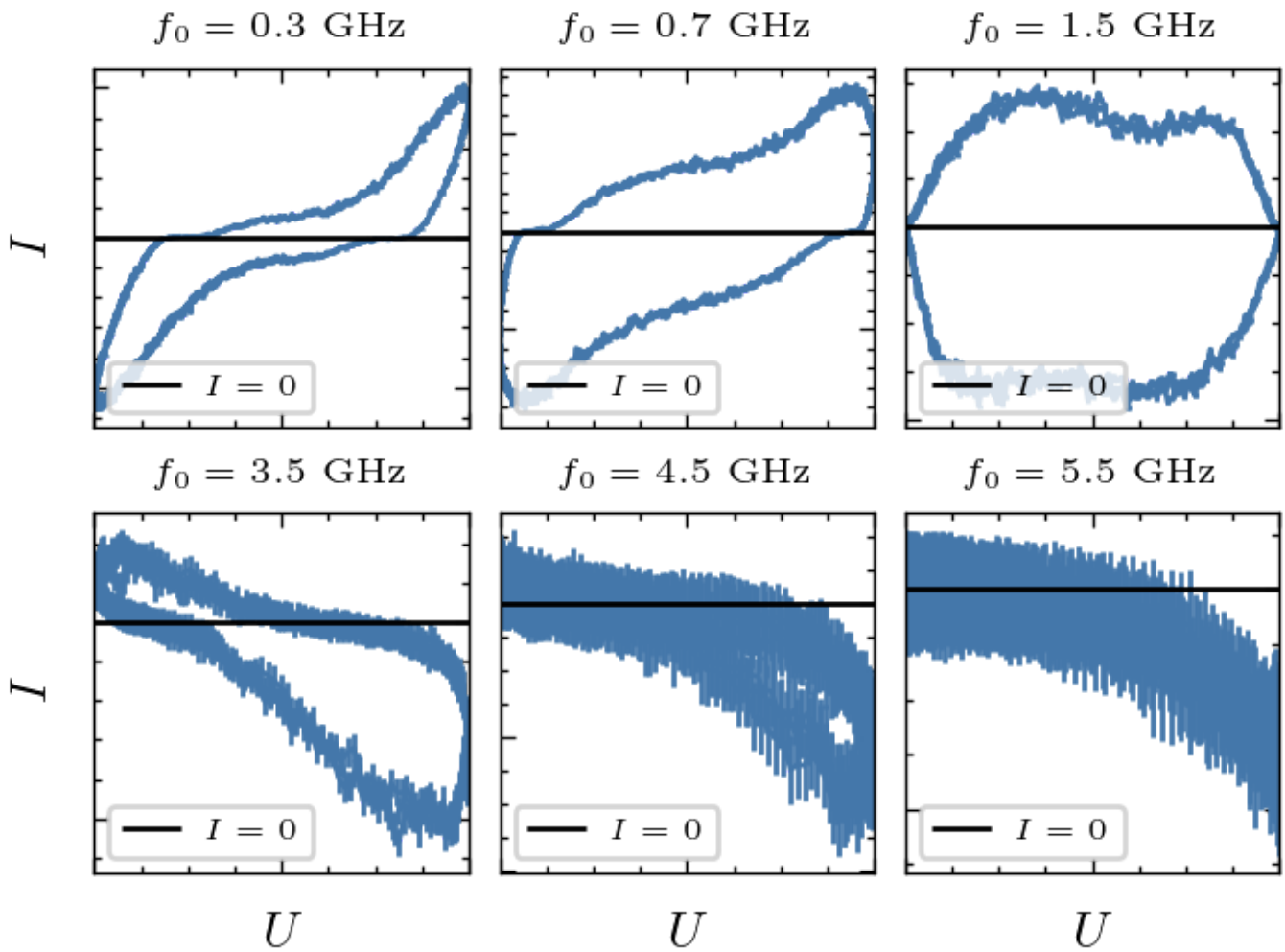
Title.

with generation being frequency dependent:



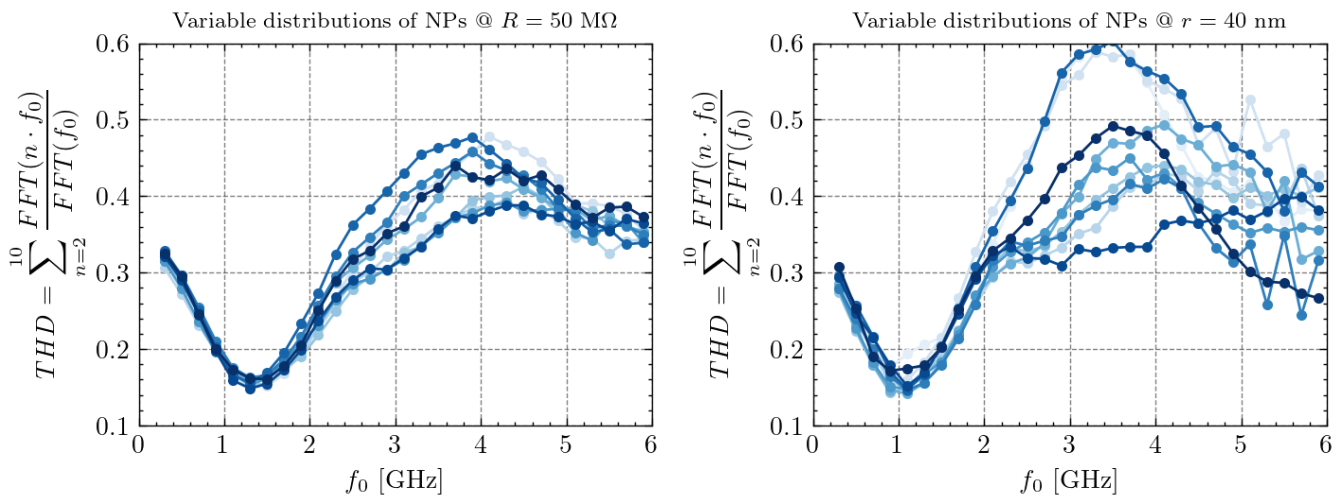
Title.

We find hysteresis diagrams in the input-output dependence:



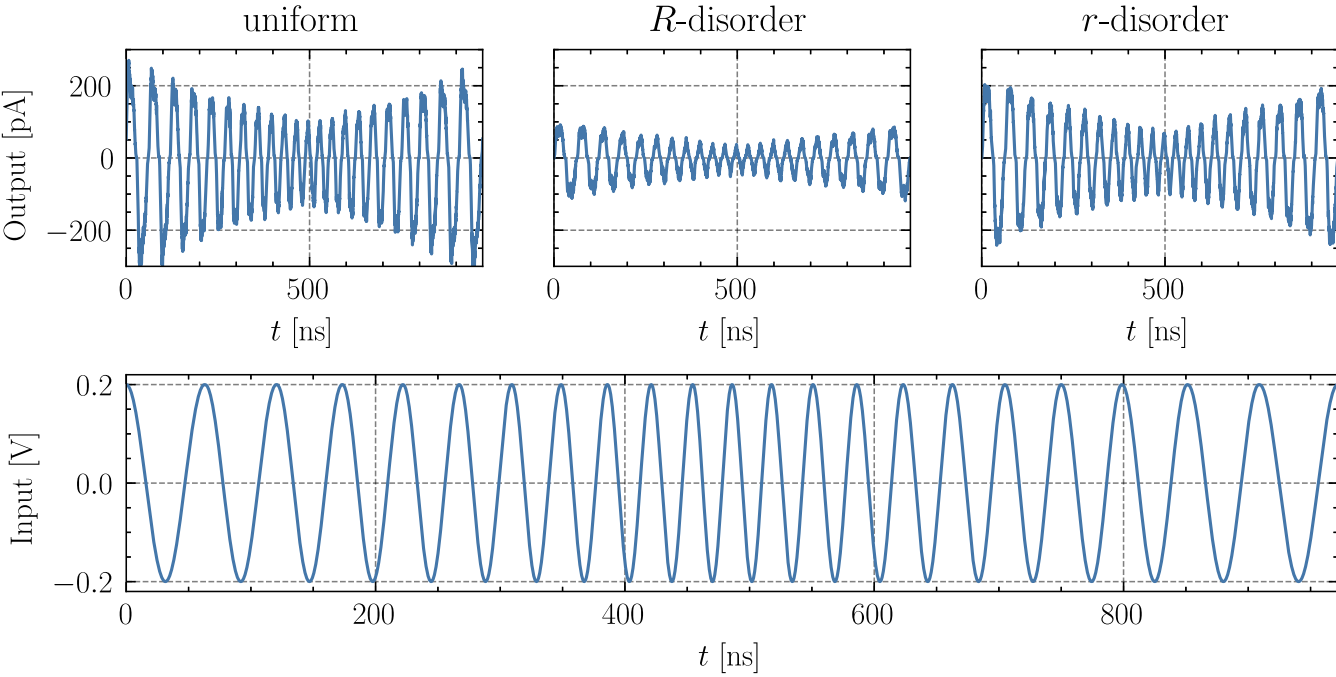
Title.

We are able to manipulate the frequency dependence of higher harmonics using disorder



Title.

Changing frequencies during the simulation:



Title.