```
CermitESR_frf_Loop(B0, B1, cantilever, f_rf_loop, grid, h, magnet, mw_x_0p,
sample)
returns: df_spin
group: CermitESRGroup
graph: CermitESR_graph handler: MemHandler
CERMIT ESR experiment for a large tip.
                                 grid extended
                                extend_grid_by_length_x(extend_grid_by_length, mw_x_0p)
return: ext_grid
                                functype: function
                                Extend the grid by the given length in x.
                                                      ext_grid_
                                Bz extended
                                field_func(Bz_method, ext_grid, h)
                                return: ext Bz
                                functype: function
                                Calculate the field value at the given height and grid points.
                                                       ext_Bz
                                        B tot extended
                                        add(ext Bz, B0)
                                       return: ext B tot
                                       functype: builtin_function_or_method
                                       Calculate combined magnetic field extended.
                                            ext_B_tot_
                                 B tot sliced
                                 slice_matrix(ext_B_tot, grid_shape)
                                 return: B tot
                                 functype: function
                                 Calculate combined magnetic field.
                                                                          ext B tot
                                             B_tot_
                                                                                         x_0p window pts
mz_eq
                                                                                                                                    Bzxx
                                                                                                                                    field_func(Bzxx_method, grid_array, h)
mz eq(B tot, Gamma, J, temperature)
                                                                                          convert_grid_pts(mw_x_0p, grid_step)
                                                                                          return: ext pts
return: mz eq
                                                                                                                                    return: Bzxx
functype: numba.core.registry.CPUDispatcher
                                                                                          functype: function
                                                                                                                                    functype: function
                                                                                                                                    Calculate the field value at the given height and grid points.
Magnetization per spin at the thermal equilibrium using the Brillouin function.
                                                                                          Convert distance to ext points.
                                                                                                     ext_pts
                                                              mz_eq_
                                                                                                                                 Bzxx
                                                         subnode f rf
                                                        submodel_f_rf(B1, Bzxx, Gamma, dB_hom, dB_sat, ext_B_tot, ext_pts, f_rf_loop,
                                                        grid voxel, k2f modulated, mz eq, spin density)
                                                        return: df_spin
                                                        functype: mrfmsim.model.Experiment
                                                        modifiers:
                                                        - loop_input(parameter='f_rf')
                                                        Submodel generated by loop shortcut for parameter 'f rf'.
```