```
returns: df spin
graph: cornell esr graph
handler: MemHandler
modifiers:
 - replace component({'magnet': ['Bz method', 'Bzxx method'], 'sample': ['J',
 'Gamma', 'spin density', 'temperature', 'dB sat', 'dB hom'], 'grid':
 ['grid array', 'grid shape', 'grid step', 'grid voxel', 'extend grid method'],
 'cantilever': ['dk to df ac cermit']})
Simulates a Cornell-style frequency shift magnetic resonance force microscope
 experiment in which microwaves are applied for half a cantilever cyclic to
 saturate electron spin resonance in a bowl-shaped region swept out by the
 cantilever motion.
                       convert microwave x 0p
                       convert grid pts(mw x 0p, grid step)
                       return: ext pts
                       functype: callable
                       Convert distance to ext points.
                              ext pts
  extended ogrid
  <lambda>(extend grid method, ext pts)
  return: ext ogrid
  functype: lambda
  Lambda expression: extend grid method(ext pts)
                 ext ogrid
                                                                        sample ogrid
         extended sample ogrid
         ogrid sub(ext ogrid, h)
                                                                        ogrid sub(grid array, h)
                                                  ext_pts
         return: ext sample ogrid
                                                                        return: sample ogrid
         functype: callable
                                                                        functype: callable
         Subtraction method used for ogrid.
                                                                        Subtraction method used for ogrid.
        ext sample ogrid
                                                                            sample ogrid
extended Bz
                                                                Bzxx
<lambda>(Bz method, ext sample ogrid)
                                                                <lambda>(Bzxx method, sample ogrid)
return: ext Bz
                                                                return: Bzxx
functype: lambda
                                                                functype: lambda
Lambda expression: Bz method(*ext sample ogrid)
                                                                Lambda expression: Bzxx method(*sample ogrid)
                                                                    Bzxx
                                   ext Bz
                                subnode B0
                                submodel B0(B0, B1, Bzxx, Gamma, J, dB hom,
                                  dB sat, dk to df ac cermit, ext Bz, ext pts,
                                  f rf, grid shape, grid voxel, spin density,
                                 temperature)
                                return: df spin
                                functype: mmodel.Model
                                modifiers:
                                 - loop input('B0')
                                Submodel generated by loop shortcut for parameter
```

CermitESR b0frfLoop(B0, B1, cantilever, f rf, grid, h, magnet, mw x 0p, sample)