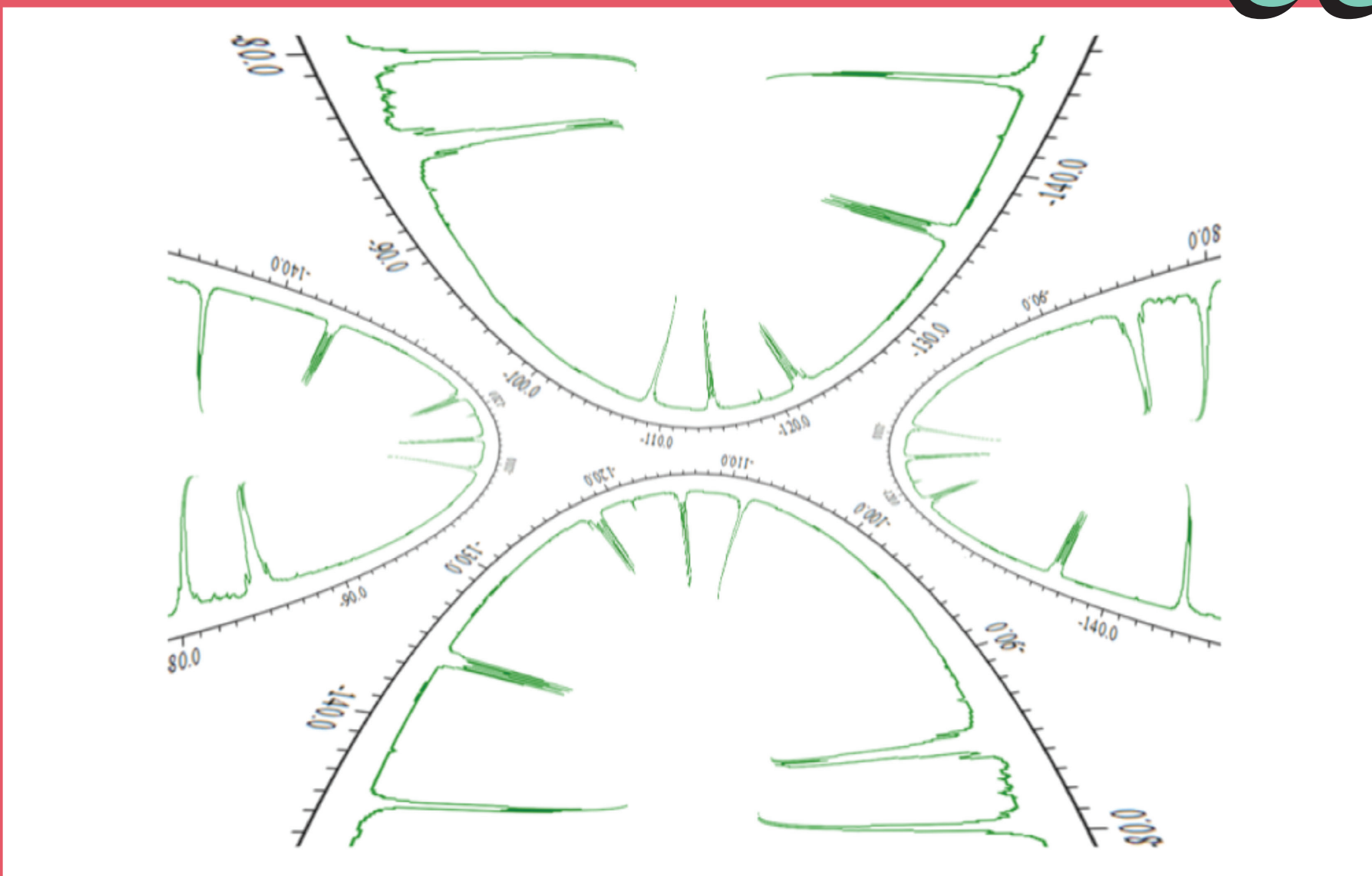




19F NMR spectrum of 8CNVE in CDCl₃ (purchased from CIL)

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Field strength: 300 MHz

Why is this your favorite spectrum?

8CNVE is a fluorinated vinyl ether monomer used to make crosslinking fluoropolymers. The IUPAC name is perfluoro 8-cyano-5-methyl-3,6-dioxa-1-octene. The spectrum was collected after purifying the monomer, and I was very happy to have a clean sample since purity is key when polymerizing tetrafluoroethylene (TFE) with other monomers such as 8CNVE.

About the NMR art. I work with fluoropolymers and once a sample is made, analyzing its spectra is sometimes complicated and tedious. I remember one night a couple of months ago, it was 4:45 am and after a long night of work and interpreting NMR of my samples, I started to see things. It was probably a combination of dehydration and exhaustion, but NMR started to look weird, and it was probably because I was not able to focus my vision on the NMR. I am sure that I am not the only one who has had visions during NMR interpretation, and therefore I decided to create this visual effect to remind the scientific community that they are not alone, that there are other people who go crazy while looking at NMR over and over.