

The case of Ising pyrochlores may be broken down into two reasonably simple ordered states, the ferromagnetic spin ice and the antiferromagnetic all-in all-out structure. Recently the experimental signatures of both systems were observed simultaneously in Nd₂Zr₂O₇. The multiple interactions have been determined to be due to the underlying symmetry of the Nd(III) ion, which allows for both dipolar and octupolar exchange. Here the analogue Nd₂ScNbO₇ is presented with similar observations. Arguments for crystal quality are presented, alongside striking differences from Nd₂Zr₂O₇. Namely a temperature dependence that allows for the separation of the ferromagnetic and antiferromagnetic behavior.