## Talk 3: 12:30– EPR study on organic low-dimensional spin systems

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Our EPR study on organic radical crystals will be presented. First, X-band EPR measurements of S = 1/2 one-dimensional compound, p-CF3PNN is described. An alternating chain is formed along the *a*-axis and exchange couplings were determined 2J/k = -20.8 K and  $\alpha = 0.1$ . W-shaped angular dependence of the linewidth was observed, but the magnetic axis is the *b*-axis. In this compound, the two-dimensional character in the dipolar interactions is suggested in spite of the one-dimensional exchange interactions.

Next, X-band and submillimeter EPR measurements of the two-dimensional systems with S = 1 and S = 1/2, BIPNNBNO, is presented. The field dependence of the resonance fields suggests that the magnetic interactions along the *a*-axis play substantial role in this system, which possibly induce frustrated spin structure.