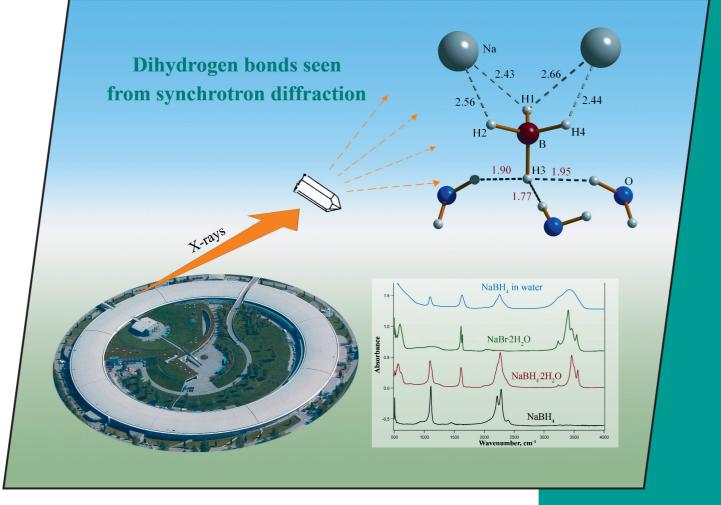


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## **Cover** Picture

Yaroslav Filinchuk and Hans Hagemann Structure and Properties of NaBH<sub>4</sub>  $\cdot$  2H<sub>2</sub>O and NaBH<sub>4</sub>

## Microreview

Keith S. Murray Polynuclear Iron(II), Iron(III) and Cobalt(II) Spin-Crossover Compounds



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The EUChemSoc Societies have taken the significant step into the future by merging their traditional journals, to form two leading chemistry journals, the European Journal of Inorganic Chemistry and the European Journal of Organic Chemistry. Three further EUChemSoc Societies (Austria, Czech Republic and Sweden) are Associates of the two journals.

## **COVER PICTURE**

The cover picture shows the crystal structure of sodium borohydride dihydrate, NaBH<sub>4</sub>·2H<sub>2</sub>O, determined from synchrotron diffraction on a single crystal. The European Synchrotron Radiation Facility (ESRF), shown in the lower left corner, provided the source of X-rays. The  $BH_4^-$  anion has a nearly ideal tetrahedral geometry. By applying the systematic correction to the positions of hydrogen atoms seen by X-rays, the geometry of the dihydrogen  $O-H^{\delta+...\delta-}H-B$  bonding was accurately characterized. The structure of anhydrous NaBH<sub>4</sub> was also investigated by X-ray diffraction on a single crystal. Vibrational properties of NaBH<sub>4</sub>·2H<sub>2</sub>O and related substances were studied by IR and Raman spectroscopy. Details are discussed in the article by Y. Filinchuk and H. Hagemann on p. 3127ff.

