## 18. EXTENSION OF ABILITIES OF THE $4\pi$ -GAMMA-SPECTROMETERS "PRIPYAT"

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The new measuring possibilities of 6-crystal gamma-rays spectrometers of "Pripyat" type are reported. Distinctive features of these spectrometers are the  $4\pi$  registration geometry and large sensitive volume (up to 5 l). Principle of operation of the new registration system and the processing methods of spectra using the corresponding software are described. The minimal volume activities measured by using modernized spectrometers of "Pripyat" type are presented (<sup>137</sup>Cs, <sup>226</sup>Ra, <sup>232</sup>Th < 1 Bq/l, <sup>40</sup>K < 10 Bq/l).