

Crystal preparation: Growth of nearly hexagonally shaped needles of PHTP-NPP resulted from 2-butanone solutions^[8]. It is important to note here that only crystals, which grew as single crystals, were used i.e. those unperturbed from the effects of neighbouring individuals or the container walls. Crystals were thinned by means of fine abrasive paper and were washed thereafter with ethanol. The crystals were covered with a light absorbing coating by dipping them in a solution of a black permanent marker dye in ethanol.

3. Experimental Results and Discussion

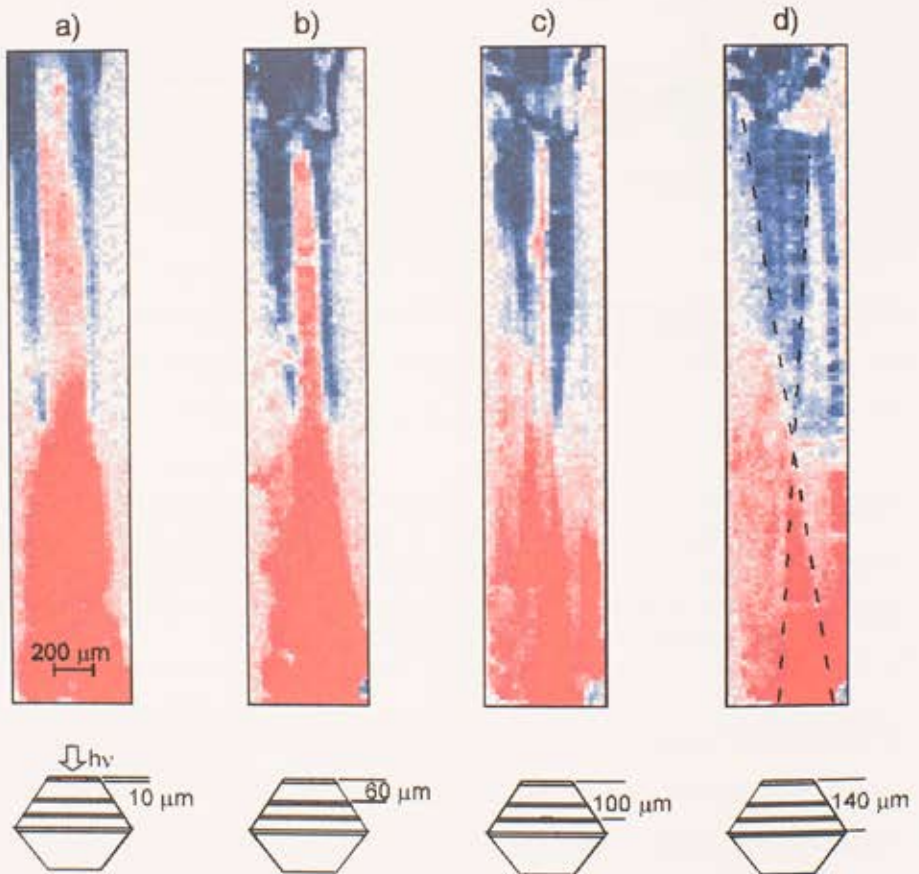


Figure 2: SPEM images of a PHTP-NPP single crystal thinned down in four different steps. Position dependent pyroelectric response $p_3(x,y)$ at a constant frequency $f = 415$ Hz are shown for four layers. Colour code: red = positive current, blue = negative current, white = zero current. Step size: $20 \mu\text{m}$. Current range: $-0.2 \text{ pA} \leq I_{\text{pyro}} \leq 0.2 \text{ pA}$.