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This product will be replaced if found defective or faulty in manufacture, labelling or packaging. No responsibility will be accepted for loss or damage, consequential or otherwise, however caused.

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**HIGH SPEED FILM FOR
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This product will be replaced if found defective or faulty in manufacture, labelling or packaging. No responsibility will be accepted for loss or damage, consequential or otherwise, however caused.

A n'ouvrir qu'en chambre noire. Pour conserver le film, placer la boîte verticalement dans un endroit frais et sec à l'abri des rayons X, des rayons gamma et autres radiations ionisantes.

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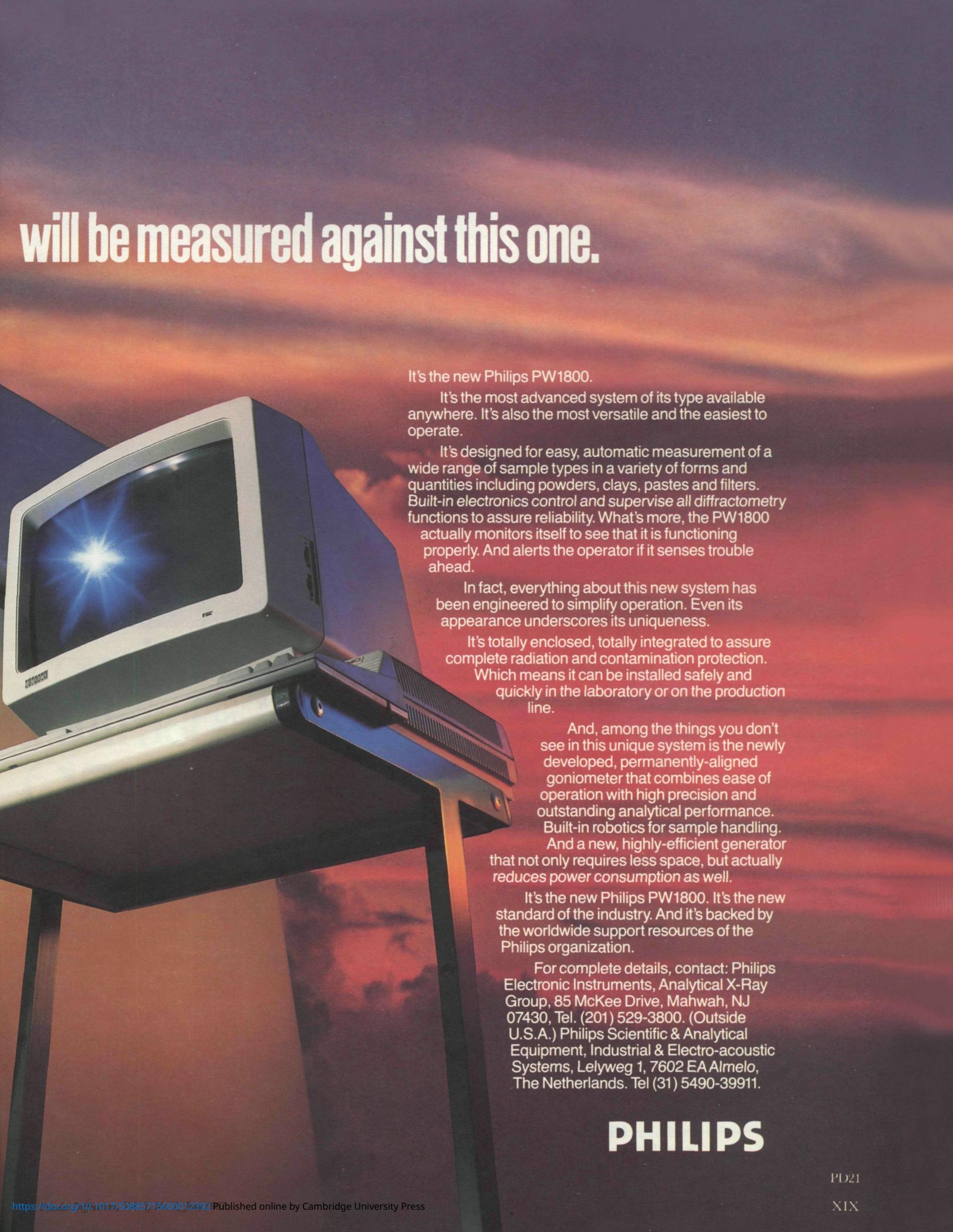
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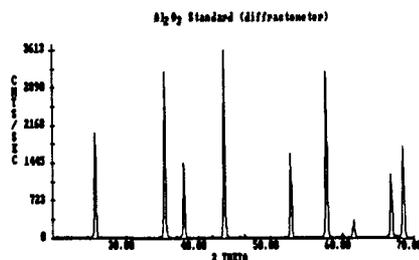
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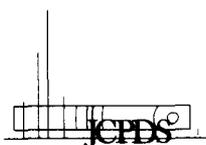
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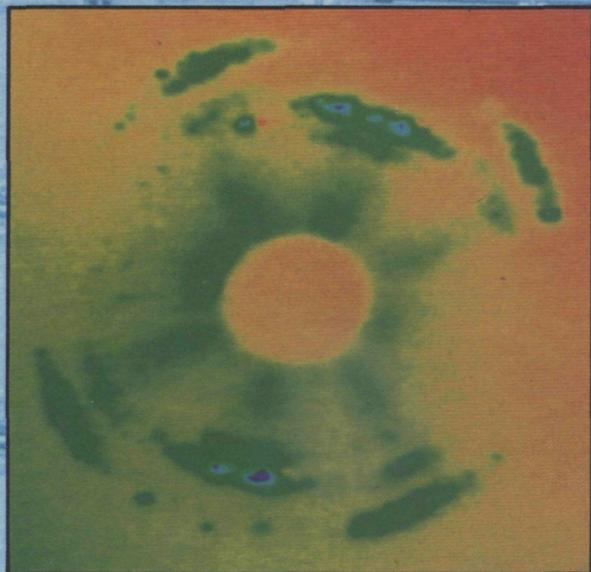
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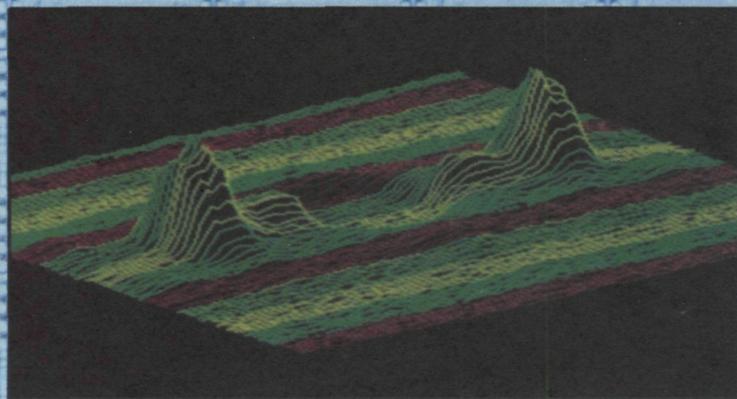
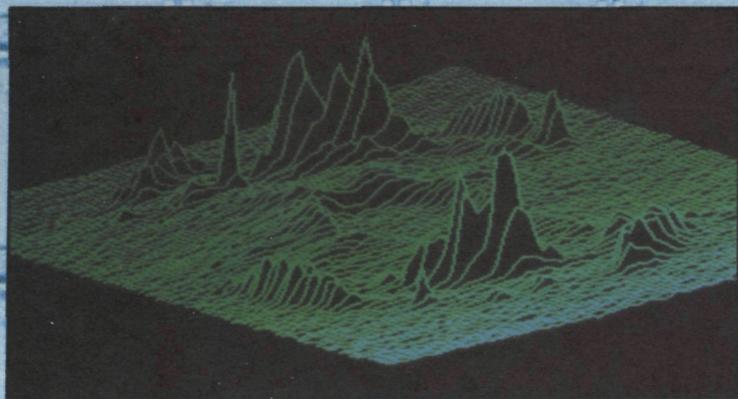
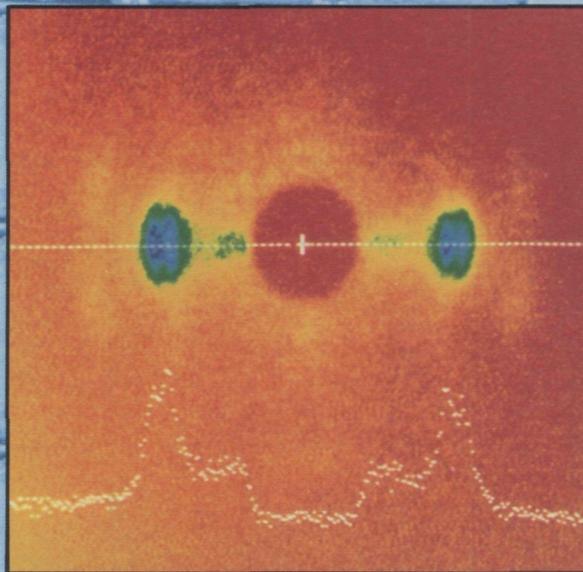
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NBS Announces Reference Patterns

for

High T_c Superconducting Phases

Recent discoveries of superconducting ceramic phases with high T_c values have led to world-wide activity in synthesis, processing and characterization of these materials. To improve the X-ray community's ability to characterize these phases Standard X-ray Diffraction Powder Patterns for two superconductors ($\text{Ba}_2\text{Cu}_3\text{YO}_7$ and $\text{CuLa}_{1.8}\text{Sr}_{0.2}\text{O}_4$) have been prepared at NBS along with the related pattern of BaCuY_2O_5 . These patterns, along with 13 others, were reported by NBS' Ceramics Division to *Powder Diffraction* on April 14, 1987. To make some of this data available as rapidly as possible we have elected special publication of the two patterns from the $\text{BaO}\cdot\text{Y}_2\text{O}_3\text{-CuO}$ system. To accommodate this rapid publication, the normal introduction has been omitted. The patterns were measured following the methods described in this Journal, Vol. 1, No. 1, pg. 40 (1986). It is anticipated that future NBS reports will include reference patterns for other binary and ternary phases in the $\text{BaO}\cdot\text{Y}_2\text{O}_3\text{-CuO}$ system. The NBS effort is partially supported by the JCPDS-ICDD through its Grant program.

The patterns have been prepared by:

W. Wong-Ng, H. McMurdie, B. Paretzkin, Y. Zhang, K. Davis, C. Hubbard,
A. Drago and J. Stewart.

Ceramics Division, National Bureau of Standards,
Gaithersburg, MD 20899, U.S.A.

Deane K. Smith
Editor in Chief
Powder Diffraction

The patterns appear on pages 116 and 117.