

Jan Pelant

Locally fine means subfine

In: Zdeněk Frolík (ed.): Abstracta. 5th Winter School on Abstract Analysis. Czechoslovak Academy of Sciences, Praha, 1977. pp. 83.

Persistent URL: <http://dml.cz/dmlcz/701095>

Terms of use:

© Institute of Mathematics of the Academy of Sciences of the Czech Republic, 1977

Institute of Mathematics of the Academy of Sciences of the Czech Republic provides access to digitized documents strictly for personal use. Each copy of any part of this document must contain these *Terms of use*.



This paper has been digitized, optimized for electronic delivery and stamped with digital signature within the project *DML-CZ: The Czech Digital Mathematics Library* <http://project.dml.cz>

Fifth winter school

Locally fine means subfine

Jan Pelant

The problem of whether each locally fine uniform space is a subspace of some fine uniform space is one of the central problems in [I] . In my lecture, a sketch of the positive solution was presented. The solution is technically involved a little bit: one of the basic tools is a tree construction of normal covers (it was developed in conversations with P.Pták) which generalizes the notion of the Ginsburg-Isbell derivative (see [GI]). The used method has found an application in an investigation of normal = metrizable covers of products of topological metric spaces. All details will be published elsewhere.

References:

- [GI] : Ginsburg S., Isbell J.R.: Some operators on uniform spaces, Trans A.M.S. 93 (1959).
- [I] : Isbell J.R.: Uniform spaces, Mathematical Surveys (12), A.M.S., 1964.