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Locally fine means subfine

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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.