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MR2175952 (2006f:54027) 54E15 (06D22 54B30 54E05 54E55) Ferreira, Maria João [Rodrigues Ferreira, Maria João] (P-CMBR); Picado, Jorge (P-CMBR)

Functorial quasi-uniformities on frames. (English summary) *Appl. Categ. Structures* **13** (2005), *no.* **4**, 281–303.

The investigations are motivated by a problem of Brümmer, who had asked for a pointfree formulation of the classical theory of functorial transitive quasi-uniformities. The authors first develop a theory of functorial quasi-uniformities on frames by means of Weil entourages and frame congruences. Then they use the pointfree version of the Fletcher construction, which they had introduced in a previous paper [Kyungpook Math. J. **44** (2004), no. 3, 415–442; MR2095985 (2005g:54049)], to describe all functorial transitive quasi-uniformities. The results are as expected, but require considerable technical efforts.

Reviewed by Hans-Peter A. Künzi

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Citations

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