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On Order Convergence In Partially Ordered Sets, by R. F. Anderson, Iowa State University, introduced by the Chairman.

The relationship studied was between a type of order convergence introduced by Birkhoff ^[1]~~12~~ and refined by Rennie ^[3]~~13~~ and a type introduced by Mc Shane ^[2]~~12~~. The relationship between them has never been clearly established in the literature. We have given an example to show they are not equivalent and given sufficient condition under which they are. Also, we have formulated Mc Shane convergence in the terms of filters to carry on the work by Vunovic, ^[4]~~13~~.

[1] G. Birkhoff, Lattice Theory, Amer. Math Soc. Colloquium Publications, Vol. 25, 1948.

[2] E. S. Mc Shane, Order preserving maps and integration processes, Annals of Mathematical Studies, Vol. 31, Princeton, 1953.

[3] B. C. Rennie, Lattices, London Mathematical Society Proceedings, Ser 2, 52: 386-400, 1948.

~~113~~ P. m. Vukovic, Convergence ~~in~~ in partially ordered sets,
(Master's dissertation, Iowa State University, 1965.)