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Hugo Corrales*, Av. Instituto Politecnico Nacional #2508, Col. San Pedro Zacatenco, Del. G. A. Madero, México, Mexico. *Arithmetical structures over the path*. Preliminary report.

In his paper *Arithmetical graphs* D. Lorenzini introduce arithmetical graphs as a generalization of the classical concept of intersection matrices of degenerating curves in algebraic geometry. He also prove that if we fix the associated graph and it is connected, then there is a finite number of arithmetical graphs. We will prove that if the fixed graph is the path on $n + 1$ vertices, then exists exactly C_n arithmetical graphs (C_n stand for the n -Catalan number). (Received August 29, 2016)