1046-53-1117 Florin Dumitrescu* (fdd3@psu.edu), Pennsylvania State University, Department of Mathematics, University Park, PA 16802. Connections and Parallel Transport. Preliminary report.
This is a short note on the equivalence of the analytic definition of connections on vector bundles (as covariant derivatives) and the geometric definition of connections (as parallel transport). In a subsequent paper with Stephan Stolz we shall interpret connections as 1 dimensional topological field theories. (Received September 14, 2008)