1015-46-213 Steven F Bellenot* (bellenot@math.fsu.edu), Department of Mathematics, Florida State University, Tallahassee, FL 32306-4510. Tree Basis in Banach spaces. Preliminary report.
A tree basis is a Schauder basis spaces with additional nice tree-like projections. For a Banach having a tree basis is a property strictly between having a conditional and unconditional basis. Spaces with tree basis are classified. James space J, and many of the usual examples have a tree bases. Stronger basis properties like symmetric, and subsymmetric have weaker tree-like versions as well. These bases are motivated by well known adaptive approximation algoritms. (Received February 06, 2006)