1014-46-319   **Edward Odell*** (`odell@math.utexas.edu`), The University of Texas at Austin, Department of Mathematics, 1 University Station C1200, Austin, TX 78712-0257. *Ordinal indices in Banach spaces.* Preliminary report.

We will survey a variety of ordinal indices and their applications to Banach space theory. Let X be a separable infinite dimensional Banach space. In typical use a property (P) is considered along with an index $I_p(X)$ such that $I_p(X) < w_1$ iff X fails (P). Also $I_p(X)$ is an isomorphic invariant. $I_p(X)$ can be used to show indirectly that X has (P) by showing $I_p(X) > \alpha$ for all $\alpha < w_1$. A second use is to exhibit uncountably many nonisomorphic members of a given class of spaces. Thirdly to show that a given class does not contain a universal member for another given class. (Received September 09, 2005)