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Steven Klee (klees@seattleu.edu), Department of Mathematics, Seattle University, Seattle, WA 98122, and **Isabella Novik*** (novik@math.washington.edu), Department of Mathematics, University of Washington, Seattle, WA 98195-4350. *From flag complexes to banner complexes*. Preliminary report.

Inspired by a recent work of Björner and Vorwerk, we introduce a notion of i -banner complexes: for various values of i these complexes interpolate between the class of flag complexes and the class of all simplicial complexes. We provide examples of simplicial spheres of an arbitrary dimension that are $(i + 1)$ -banner, but not i -banner. We then establish i -banner analogues of several theorems for flag complexes. For instance, we prove that (1) the codimension- $(i + j - 1)$ skeleton of an i -banner homology sphere Δ is $2(i + j)$ -Cohen–Macaulay for all $0 \leq j \leq \dim \Delta + 1 - i$, and that (2) for every i -banner simplicial complex Δ there exists a balanced complex Γ whose face numbers of dimension $i - 1$ and higher coincide with those of Δ . (Received September 12, 2012)