1023-55-1696   **Risto Atanasov*** (`atanasov@math.binghamton.edu`), Department of Mathematical Sciences, Binghamton University, Binghamton, NY 13902. *Local Conditions for a 2-dimensional Duality Group.* Preliminary report.

An n-dimensional simplicial complex Δ is Cohen-Macaulay if for any simplex σ of Δ, $\widetilde{H}^i(lk(\sigma)) = 0$ for $i < dim(lk(\sigma))$. If K is a finite aspherical Cohen-Macaulay complex whose fundamental group is G, we consider what further conditions on K are necessary to ensure that G is a duality group in the sense of Bieri-Eckmann. The talk will mainly be concerned with the case $n = 2$. (Received September 26, 2006)