**MR991693 (90e:55012)** 55N30 (54C10 54D45 55T99)

**Dydak, Jerzy** (1-TN); **Walsh, John J.** (1-CAR)

**Cohomological local connectedness of decomposition spaces.**

*Proc. Amer. Math. Soc.* **107** (1989), *no. 4*, 1095–1105.

Let $f: X \to Y$ be a map between locally compact metrizable spaces and $\mathcal{H}^k(f)$ the associated $k$-dimensional cohomology sheaf. The authors use the Leray-Grothendieck spectral sequence to show that if the sheaves $\mathcal{H}^k(f)$ are locally constant and $X$ is cohomologically locally connected, then $Y$ is cohomologically locally connected. Results on homotopical local connectedness [G. Smale, same journal **8** (1957), 604–610; MR0087106 (19,302f)] can be recovered using a local version of the Hurewicz theorem.

Reviewed by *Marek Golasiński* (Toruń)