1023-54-30   **Mohammad Abry** and **Jan J Dijkstra*** (`dijkstra@cs.vu.nl`), Afdeling Wiskunde, Vrije
Universiteit, De Boelelaan 1081, 1081 HV Amsterdam, Netherlands, and **Jan van Mill**. *On
explosion points and fixed points.*

A point p in a connected space X is called an *explosion point* of X if $X \setminus \{p\}$ is totally disconnected. In that case X is called a one-point connectification of $X \setminus \{p\}$. *Erdős space* $\mathfrak{E}$ and *complete Erdős space* $\mathfrak{E}_c$ were introduced by Paul Erdős in 1940 as examples of one-dimensional totally disconnected spaces that are homeomorphic to their own squares. We show that the canonical one-point connectifications of both $\mathfrak{E}$ and $\mathfrak{E}_c$ have the fixed point property. In contrast, we also construct an example of a one-dimensional connected space with an explosion point but without the fixed point property. (Received July 03, 2006)

1