



LEAKY GRAPHS: CORNERS AND ASYMPTOTIC STRAIGHTNESS

M S P EASTHAM
Cardiff School of Computer Science
Cardiff University
Queen's Buildings
5 The Parade
Cardiff CF24 3AA
Wales, UK

Exner and Ichinose (2001) considered graphs with a singular attraction and gave conditions on the geometry of the graph which ensure that

1. the spectrum contains an interval $[-c, \infty)$ ($c > 0$) and
2. there is a non-empty discrete spectrum in $(-\infty, -c)$.

Here we give simpler proofs of related spectral results and mention some open questions. (Joint work with Malcolm Brown and Ian Wood).