1003-Z1-65   **Kang-Tae Kim*** (`kimkt@postech.ac.kr`), Department of Mathematics, Postech, 790-784
            Pohang City, South Korea. *One-parameter subgroup arising from a discrete non-compact*
            automorphism group of a domain.

Let Ω be a domain with a smooth boundary in the complex plane. Assume also that there is a point p in Ω and a sequence of holomorphic automorphisms f_j of Ω such that the point sequence $f_j(p)$ accumulates at a boundary point of Ω. Then the primary goal of this presentation is to explain how this gives rise to a one-parameter subgroup of the automorphism group of the domain Ω. This method as well as its consequences naturally generalize to a broad class of domains with higher complex dimensions. Certain recent results in complex dimension 2 will be also mentioned. (Received July 29, 2004)