

## Hypercyclicity of composition operators in pseudoconvex domains

We characterize hypercyclic composition operators  $C_\varphi : f \mapsto f \circ \varphi$  on the space of functions holomorphic on  $\Omega$ , where  $\Omega \subset \mathbb{C}^N$  is a pseudoconvex domain and  $\varphi$  is a holomorphic self-mapping of  $\Omega$ .

When  $\Omega$  is  $c$ -finitely compact, we show that much simpler characterisation is possible. Moreover, we show that in such a class of domains, and in simply connected or infinitely connected planar domains, hypercyclicity of  $C_\varphi$  implies its hereditary hypercyclicity.