1135-J1-2424 **Abdur-Waajid Munajj*** (`munajjwaajid@yahoo.com`), 112-15 209 Street, Queens Village, NY 11429, and **Brett Sims** (`bsims@bmcc.cuny.edu`), 199 Chambers Street, Department of Mathematics, New York, NY 11429. *Induced Mental-Endomorphisms.* Preliminary report.

This research in mathematical psychology is motivated by studies of cognitive dynamics brought on by the person "stimulating" their own mind, while a psycho-social study is motivated by cognitive dynamics stimulated by person to person interaction- between the minds of individuals through any form of communication. Carl Jung (1921), a Swiss psychiatrist defined the self (person) as the main entity governing its individuation out of conscious and unconscious states; however, it is not determined whether the self (person) is disjoint from the mind or not. In this research, the person (individual) is taken to be a separate entity, disjoint from the mind, but "owning" a mind. The action of the person on the mind is discussed in terms of Actions on Sets, where the person, as the action domain, is a magma of potentials, with the sentient properties of awareness, perception, and the ability to cause. The structures acted on in the mind are cognitive substructures defined by abstract simplicial complexes, whose vertices can be many-sorted formulas. We model mental actions, implicitly, by induced mental-endomorphisms on complexes. We also construct a scenario for induced mental-endomorphisms stimulated by a semantic preserving "homomorphic" interpersonal communication map. (Received September 26, 2017)