

# **The inevitability of one type of universe, one set of the laws of physics and where to observe failed inflation events within our universe**

MICHAEL LAWRENCE

*Maldwyn Centre for Theoretical Physics, Cranfield Park, Burstall, Suffolk, United Kingdom*  
[lawrence@maldwynphysics.org](mailto:lawrence@maldwynphysics.org)  
5 October 2014

Starting from the simple premises of one size of fundamental building block, two types of energy and only three dimensions, it is shown that there can be no multiverses outside our universe, that some black holes are observable failed inflation events within our universe and that there can be only one underlying set of the laws of physics. These laws will be the same everywhere and fail nowhere. Composites formed from the building blocks during different inflation events can produce different sizes of fermions, nucleons and atoms, but a type of universe with symmetries similar to ours is the inevitable outcome of a successful inflation event. The building blocks provide the base for matter, anti-matter and dark matter in the same composite forms and show how the existence or otherwise of dark energy can be observed. Also explained are why only positive masses are observed, why some particle configurations and orbits are stable and what the term 'inertia' really describes. The emphasis of the proposals is on providing solutions to open problems and directions for future research.