

# New Mathematical Physics for Energy Change Explanation (Boolean Algebra)

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**Abstract—true=1 and false =0. Main body**

## I. INTRODUCTION

Energy, a fundamental concept in physics, is often regarded as a static quantity. However, the notion of changing this energy state can be reinterpreted through a new algebraic lens. This paper illustrates how we can manipulate the static energy of a body, using true and false values.

Static energy example

Let us consider a body (body A) with an initial static energy of 76 calories. Our goal is to adjust this energy to 78 calories.

Current energy state:

$E=76$  calories

Target energy state

$E_t=78$  calories

Algebraic Representation:

To transform to 78 calories from 76 calories, we utilize our new algebraic definitions:

$78cal=0$

Or,  $78cal+0cal=0$

Or,  $78cal+(0cal=0)$

Or,  $78cal+(0cal*0)$

Or,  $78cal+0$

Or,  $78cal$

Or,  $78cal=1=true$

It is possible in another way also,

$78cal=0$

Or,  $78cal-0cal=0$

Or,  $78cal-(0cal=0)$

Or,  $78cal-(0cal*0)$

Or,  $78cal-0$

Or,  $78cal=1=true$

Through these representations, we demonstrate that it is feasible to conceptualization changes in energy states using our algebraic framework.

Conclusions: so, we can see that it makes sense to say  $1=true$  and  $0=false$ .

It can explain energy change.