

## Theoretical and Experimental Investigations of Some Simple Chemical Systems

*John Smith*<sup>1</sup>, *Anna Smit*<sup>2</sup>, *Michael Major*<sup>1</sup>

<sup>1</sup>Institute for Studies of Simple Chemical Systems, Copacabana Beach, Rio de Janeiro, Brasil

<sup>2</sup>Department of Simple Systems, University of High Mountains, Tirol, Austria

We have investigated the behavior of several simple linear chemical systems. Our investigations have shown [1,2] that their dynamics is characterized by the properties which are shared by many of them. Remarkably, we could always see that the observed behavior was decomposable into contributions coming from different involved processes. For each elementary process, a complete analytical description in terms of linear differential equations could be reached. In the future, investigations of an even larger set of simple chemical systems are planned.... The total length of the abstract should not exceed one A4 page.

1. J. Smith and M. Major, *Phys. Rev. W*, **102**, 151230 (2011).
2. A. Smit and M. Major, *Complex Approaches to Simple Chemical Systems* (Springer, Berlin, 2012).