



## EDITORIAL

“We are but slaves of symmetry”, that is what they say. This statement is not only made in the realms of philosophy but also on the backdrop of discoveries of all the elementary particles of the nature and their interactions explained with the novel concept of symmetry. I am indeed glad that a review article on "The central role of symmetry in physics" has found its place in the current issue of this journal which has discussed in brief the importance of group theory in different prospects of Modern Theoretical Physics. I hope it should give a bird's eye view of the concerned area to a general spectator.

This year again the Nobel Prize in Physics is awarded for a study in superfluidity/superconductivity to David J. Thouless, F. Duncan M. Haldane and J. Michael Kosterlitz; probably, by now, the highest number of Nobel prizes is awarded to this field of study. The second article on “First quantization and basic foundation of the microscopic theory of superconductivity” will surely help us revisit this baffling concept.

“A review of the elements of nuclear magnetic resonance instrumentation” meticulously discusses the sophisticated analytical instrument NMR which should be helpful to a number of experimentalists in Physics, Chemistry and Biology. In the fourth article of the current issue, a critical mathematical analysis is presented to study the laminar flow of a viscous incompressible fluid past an accelerated horizontal cylinder in a rotating fluid by Laplace transform technique. Apart from these, one of the papers describes a novel and very simple approach for the detection of D-alanine based on the  $H_2O_2$  based change in surface plasmon resonance property of silver nano particles; this technique should be useful in the diagnosis of criticality of Alzheimer’s disease and renal disorders. This is a significant research since microgram levels of D-alanine can be detected in simulated body fluid using simple instrumentation such as a UV-Visible spectrophotometer only. Besides, a couple of papers from biology and astrophysics, respectively, have also been included in this issue of the journal. In short, like the earlier issues, this issue also contains article from all the major disciplines of science.

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