

Aplikasi prinsip simetri pada transformasi invarian Gauge Abelian dan Non - Abelian serta implikasinya terhadap hukum - hukum Fisika

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Abstrak

We impose the symmetry principles to elaborate the invariance of the Abelian and non- Abelian gauges and evaluate its implications to the laws of physics. The application of the symmetry principle into the field which undergoes a rotation in a phase space implies the existence of an Abelian gauge field. Meanwhile, the application of symmetry principle to the Dirac field as a doublet of SU (2) group implies the existence of a non - Abelian gauge field with structure constant satisfies the Lie group algebra.