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subject and to carry out  
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lattice gauge theory is the  
study of gauge theories on a  
spacetime that has been  
discretized into a lattice  
gauge theories are important  
in particle physics and  
include the prevailing

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spacetime formally involve  
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it has been known for a long  
time that they are described  
by a quantum gauge field  
theory but that the principle  
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with a brief discussion of  
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integral we develop the main  
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quantum field theory that is  
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mathematical theory of  
concept hierarchies which is  
based on lattice theory  
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mathematical model based on a  
lattice discrete subgroup of  
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*specifically quantum field*  
*theory which deals with field*  
*theories defined on a spatial*  
*or space time lattice the*  
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into euclidean space and  
discretized into a lattice  
with sites separated by  
distance and connected by  
links in the most monly  
considered cases such as  
lattice qcd fermion fields  
are defined at lattice sites  
which leads to fermion  
doubling while the gauge  
fields are defined on the  
links'**

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