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# Towards a unified theory of the fundamental physical interactions based on the underlying geometric structure of the tangent bundle

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**Abstract** This paper pursues the hypothesis that the tangent bundle (TB) with the central extended little groups of the  $SO(3,1)$  group as gauge group is the underlying geometric structure for a unified theory of the fundamental physical interactions. Based on this hypothesis as a first step, I recently presented a generalized theory of electroweak interaction (including hypothetical dark matter particles) (Herrmann in Eur Phys J C 79:779, 2019). The vertical Laplacian of the tangent bundle possesses the same form as the Hamiltonian of a 2D semiconductor quantum Hall system. This explains fractional charge quantization of quarks and the existence of lepton and quark families. As will be shown, the  $SU(3)$  color symmetry for strong interactions arises in the TB as an emergent symmetry similar to Chern–Simon gauge symmetries in quantum Hall systems. This predicts a signature of quark confinement as a universal large-scale property of the Chern–Simon fields and induces a new understanding of the vacuum as the ground state occupied by a condensate of quark–antiquark pairs. The gap for quark–antiquark pairing is calculated in the mean-field approximation, which allows a numerical estimation of the characteristic parameters of the vacuum such as its chemical potential, the quark condensation parameter and the vacuum energy. Note that a gauge theoretical understanding of gravity was previously achieved by considering the translation group  $T(3,1)$  in the TB as gauge group. Therefore, the theory presented here can be considered as a new type of unified theory for all known fundamental interactions linked with the geometrization program of physics.

## 1 Introduction

The development of the Standard Model (SM) of elementary particles was a great triumph of modern physics. However,

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despite its enormous success in explaining a large number of experiments, it cannot be considered as the ultimate theory of particle physics. The SM is incomplete and contains several open problems that cannot be solved on the basis of this model, as well as phenomenological elements that have not yet been explained on a microscopic basis. A fundamental problem in the SM is the question of the physical origin of the internal symmetry groups assumed *a priori* for phenomenological reasons. Several other unanswered questions are the mysterious existence of three families of leptons and quarks (also called generations) that differ only in their masses and the origin of the hierarchy of fermion masses, the microscopic understanding of the spontaneous symmetry breaking by the Higgs mechanism and the hierarchy problem, the lack of understanding of fractional quark charges, the missing explanation of dark matter and dark energy, and others.

There have been many attempts to formulate a unified theory beyond the SM that could solve the above puzzles. In Grand Unified Theories, the electroweak and strong interactions are embedded in a larger gauge group, such as the  $SU(5)$  group first proposed by Georgi and Glashow [1] or in the  $SO(10)$  group [2]. There have also been some attempts to understand the origin of families in the SM by using a so-called family symmetry [3,4]. Despite many subsequent attempts, no unified model exists that is able to solve all these problems on a unified basis, and none of them is considered to be universally accepted.

The SM of particle physics is based on the gauge principle, with local symmetry transformations of the variables of the phenomenologically determined continuous gauge groups  $SU(2) \otimes U(1)$  in electroweak interactions and  $SU(3)$  in strong interactions (quantum chromodynamics, QCD) acting in an “internal space” related to the symmetry group. The geometric or physical origin of the internal symmetries given by the gauge transformations remains unknown. Here we follow the hypothesis that the gauge principle is not a

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web pt rmax at jis 82 sum of height of the largest profile peak height rp and the largest profile valley rv within an evaluation length rt pt wt max rpi max rvi rzjis ten point height of roughness profile rz at jis 94 sum of mean value of largest peak to the fifth largest peak and mean value of largest valley to

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web usage note a direct allocation of an rz value to a roughness grade is not possible due to the conversion interval in this rz ra calculator the input rz value is first converted to the average value of the ra interval and the n class is determined based on this value

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web rmax vertical distance from highest peak to lowest valley rmax is particularly sensitive to anomalies such as scratches and burrs that may not be obvious from measures such as ra that rely on averages rz preferred by many europeans rz is often preferred to ra in europe and particularly germany

**ra to rz conversion and rz to ra machining doctor** - May 25 2022

web r z m i n 3 8 r a 0 95 r z m a x 14 5 r a 0 75 converting between ra and rz is not a good engineering practice it is always recommended to measure according to the method in which surface roughness is indicated on the drawing as you can see in the below graphs the inaccuracy grows in higher r a r z values

**rz to ra conversion** - Sep 28 2022

web oct 22 2021 a rz din ra 7 2 rz iso ra 7 6 ra rz din 7 2 ra rz iso 7 6 san last name deleted for privacy by editor shanghai china publicly reply to san s post q convert rz value to ra

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web surface finish calculator calculate turning surface finish based on corner radius and feedrate input cutting conditions unit selector imperial metric corner radius r inch mm 0 030 feedrate f ipr or mm rev 0 0080 results surface finish ra microns ra micro inches n iso n number of triangles rms cla feedrate

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web mean roughness the mean roughness roughness average ra is the arithmetic average of the absolute values of the roughness profile ordinates ra is one of the most effective surface roughness measures commonly adopted in general engineering practice

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web nov 11 2021 surface finish conversion chart in this section there s a table for the surface finish conversion chart this table compares the different surface roughness scales for manufacturing processes meanwhile let s go through some of the abbreviations you ll find there ra roughness average rms root mean square cla center line

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web ra roughness average in micrometers or microinches rms root mean square in microinches cla center line average in microinches rt roughness total in microns n new iso grade scale numbers cut off length length required for sample

**surface roughness conversion chart tables engineers edge** - Oct 10 2023

web conversions math cla micro inches multiply ra  $\mu\text{m}$  x 40 r t r a x 8 7 r z r a x 7 2 r z iso r a x 7 6 r max r a x 8 0 r p r a x 3 6 rpm r a x 2 9 rms r a x 1 1 example ra to rt 1 0 micrometer ra x 8 7 rt factor 8 7 micrometer rt 40 microinch ra x 8 7 rt factor 348 microinch rt

**surface roughness what is difference between ra rmax rt** - Jan 01 2023

web jul 25 2007 in what conditions we use rmax welcome to the cove average roughness ra the average height of the bumps on a surface measured in micrometres or microinches rt is the difference between the highest peak and the lowest valley rmax is the highest peak

**surface roughness comparison edm precision** - Oct 30 2022

web may 1 2016 it is important to note that using conversion factors to calculate between ra and rz is not a good idea it is best to establish what figure for surface roughness the designer customer has specified and measure this

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