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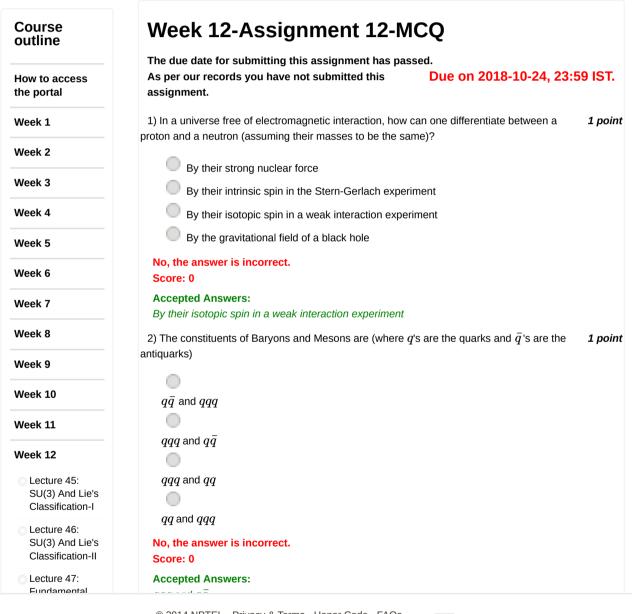
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Courses » Theory of groups for physics applications

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Unit 13 - Week 12



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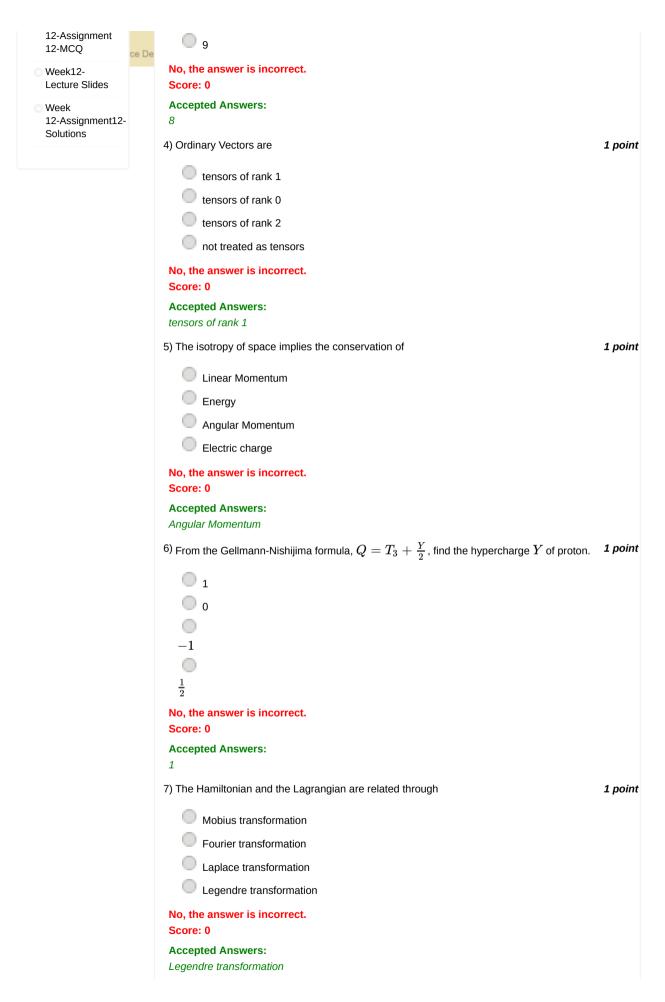
A project of





Funded by

In association with



8) Any gauge transformation can be treated as local if	1 point
the transformation parameter is spacetime dependent	
the transformation parameter is spacetime independent	
the transformation generator is spacetime dependent	
the transformation generator is spacetime independent	
No, the answer is incorrect. Score: 0	
Accepted Answers: the transformation parameter is spacetime dependent	
⁹⁾ In the presence of an electromagnetic field, the kinetic part $\frac{ \vec{p} ^2}{2m}$ of the Hamilton classical charged particle with mass m and charge q needs to be replaced by	nian of a
0 0	
$rac{1}{2m}\left ec{p}-rac{q}{c}\;ec{A} ight ^2$	
$\frac{ \vec{p} ^2}{2m}$	
$rac{1}{2m} \left rac{q}{c} \; ec{A} ight ^2$	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
$rac{1}{2m}\left ec{p}-rac{q}{c}ec{A} ight ^2$	
10)Homogeneity in time gives us the conservation of	1 point
Isotopic spin	
Angular momentum	
Linear momentum	
Energy	
No, the answer is incorrect. Score: 0	
Accepted Answers: Energy	
Previous Page	End