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Astronomy•Collider Experiments Collide Beams Of Particles E.g. E+e!, Pp!, E!p, Pp

•Key Parameters (see Also Lecture 4) •centre Of Mass Energy: •Integrated Luminosity "l Dt = ! # Time To Run Experiment Colliders  $\sqrt{s} = (\sqrt{p_a^2 + p_b^2})$  7

E+e!!hadrons •Electromagnetic Production Of Qq!pair, Strong Interactions Cause Q And Q!to Fragment I 7th, 2022Bob's Evolution From Particle Physics To Accelerator

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Feynman Diagrams Interaction Of Particles And Matter Nuclear Models Initial Competences: 1. Understand The Connection Between The Wave-function And Probability 2. Be Able To Perform Basic Calculations With Special Relativity 3.

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...2. Students Will Be Able To Accurately Draw Feynman Diagrams Showing Any Possible Reactions 3. Students Will Be Able To Do Tree Level QED Calculations Using

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Symmetries 5. 11th, 2022PHYSICS 564 Introduction To Particle Physics I- Use LaTeX And Learn How To Write A Scientific Paper • A Short Oral Report Around End Of The

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Directions Are Required To Conserve Linear Momentum. 8) Two Protons Will Attract Each Other In A Strong Force Interaction When They Are Approximately 1 To 2.5 Fm Apart From Each Other. /2 The Protons Will Repel Each Other Via The

Electromagnetic Interaction When They Are 10th, 2022.

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