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Lecture Notes - Particle Physics | Particle Physics

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Z1937: Hamaker Proposes That Surface Forces Were Related To The Density Of Atoms In The Particle And Substrate, N_p And N_s , Respectively. Hamaker Further Proposed That The Interaction Parameter A (commonly Referred To As The Hamaker Constant) Was Related To London Dispersion Forces By The Load P Is Then Given By $\pi P S \lambda A = 2n N^2 \epsilon_0 A R P$... May 8th, 2024

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Q1. A Muon Has A Mass Of $106 \text{ MeV}/c^2$. The Mass Of A Muon, To Two Significant Figures, Is A $1.7 \times 10^{-11} \text{ Kg}$ B $5.7 \times 10^{-20} \text{ Kg}$ C 1.9 Apr 8th, 2024

Particle Physics - School Of Physics And 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 " $\int L dt = \int \# \text{ Time To Run Experiment Colliders } \sqrt{s} = (pa + P B)^2$ 7 $E+e!!$ hadrons •Electromagnetic Production Of $Qq!pair$, Strong Interactions Cause Q And $Q!to$ Fragment I Mar 12th, 2024

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Compression Annealed, Pyrolytic Graphite Has Been Used To Polarize A 16-GeV Bremsstrahlung Beam. The Polarizer Consists Of 61 Cm Of Graphite Crystals, Whose Reciprocal Lattice Vectors Are Oriented At 10.5 Mrad To The Normal To The Beam Direction, And Can Jun 11th, 2024

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