**CODEBOOK**

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**ABBREVIATION**

ECPSSR Energy Loss Coulomb Perturbation Stationary State Relativistic

ECPSSR+MI Energy Loss Coulomb Perturbed Stationary State Relativistic Approximation-United Atom + Multiple Ionization

ECPSSR-UA Energy Loss Coulomb Perturbed Stationary State Approximation Relativistic-United Atom

PIXE Particle Induced X-ray Emission