

PAUL SCHERRER INSTITUT



Particle Theory Seminar

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“New Methods for Feynman Integrals”

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Abstract:

New methods of evaluating multiloop Feynman integrals, together with the corresponding computer packages, are presented. These are the algorithm FIRE for the reduction a given family of Feynman integrals to master integrals, the algorithm FIESTA based on sector decompositions for the numerical evaluation of Feynman integrals and algorithms to evaluate Feynman integrals by the method of Mellin-Barnes representation.