



JOINT INSTITUTE FOR NUCLEAR RESEARCH BOGOLYUBOV LABORATORY OF THEORETICAL PHYSICS

RUSSIA, DUBNA

$$R^* = \tilde{R}_{IR} \circ R_{UV}$$

$$\frac{\partial}{\partial \zeta^A} \beta_5^{QCD} = \frac{9}{8} \beta_1^{QCD} \cdot \frac{\partial}{\partial \zeta^3} \beta_4^{QCD}$$

11–14 OCTOBER, 2021

70 ADVANCES IN QUANTUM FIELD THEORY 2021

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$$\frac{\partial}{\partial \zeta^A} \beta_5^{QCD} = \frac{9}{8} \beta_1^{QCD} \cdot \frac{\partial}{\partial \zeta^3} \beta_4^{QCD}$$

$$H(x, \xi; t) = \int_{-1}^1 d\beta \int_{-1+|\beta|}^{1-|\beta|} d\alpha \delta(x - \beta - \xi \alpha) F(\beta, \alpha; t)$$

The Conference is dedicated to the 70-th anniversary of 7 scientists who graduated from the same academic group of Physics Department of Moscow State University in 1974 and keep working in the field of Quantum field theory and Particle physics

BELOKUROV
VLADIMIR
MSU, Moscow

CHETYRKIN
KONSTANTIN
KIT, Karlsruhe

KAZAKOV
DMITRY
JINR, Dubna

KRASNIKOV
NIKOLAY
INR, Moscow

RADYUSHKIN
ANATOLY
ODU, Norfolk

SMIRNOV
VLADIMIR
SINP, MSU,
Moscow

VLADIMIROV
ALEXEY
JINR, Dubna

Renormalization theory • Multiloop calculations • Amplitudes • Perturbative QCD • Path integrals •
Effective theories • Physics Beyond the SM • Cosmology and Dark Matter • Gravity

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$$\mathfrak{M}(\nu, z^2) = \frac{\mathcal{M}(\nu, z^2)}{\mathcal{M}(0, z^2)}$$

$$\varphi_\pi(\xi, \mu^2) = (1 - \xi^2) \sum_{n=0}^{\infty} a_n \frac{C_n^{3/2}(\xi)}{(\ln \mu^2 / \Lambda^2)^{\gamma_n/2\beta_0}}$$