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ON Γ-CONVERGENCE OF INTEGRAL FUNCTIONALS[1]

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The talk is devoted to Γ-convergence of convex integral functionals following the approach by Zhikov [1].

We consider functionals of the type

$$u \to \int_\Omega f(x, \nabla u(x))dx + \int_{\partial\Omega} g(x, u(x))dS, \quad u \in W_2^1(\Omega) \cap L_p(\partial\Omega),$$

and derive representation for the Γ-limit functional.

REFERENCES

[1] V.V. Zhikov. Questions of convergence, duality, and averaging for functionals of the calculus of variations. *Izv. Akad. Nauk SSSR Ser. Mat.*, **47** 961-998, 1983.(in Russian)

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