

# Publications in Gravitational Physics

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## 1 General Relativity

### 1.1 Formalism

The surface term was rediscovered (?) by [GH77; Yor72] and thus (?) named as the Gibbons–Hawking–York term.

The Arnowitt–Deser–Misner formalism was first published in [ADM59] and was reviewed in [ADM08] (reprint, original needed), editorial note: [Pul08].

### 1.2 Exact solution

## 2 Gauge Theories of Gravitation

Friedrich Hehl on Poincaré gauge theory: [Heh+76], status unclear.

Friedrich Hehl on Metric-affine theory: [Heh+95], status unclear.

## 3 Cosmology

### 3.1 Inflation

Dong-Gang Wang has suggested [Bau11]

## 4 Text books

### 4.1 Course of theoretical Physics

Курс теоретической физики; Lehrbuch der theoretischen Physik, 理论物理学教程

**Mechanics** [LL82; LL97; 朗栗 10; ЛЛ15]

**The Classical Theory of Fields** [LL87a; LL92a; 朗栗 12; ЛЛ16]

**Quantum Mechanics: Non-Relativistic Theory**

**Quantum Electrodynamics**

**Statistical Physics**

**Fluid Mechanics**

**Theory of Elasticity**

**Electrodynamics of Continuous Media**

**Statistical Physics, Part 2: Theory of the Condensed State**

**Physical Kinetics** Rest of the current English volumes are [Lan+86; LL80a; LL80b; LP80; LL77; BLP82; LP81; LL87a; LLP84] (cleaning and linking to Russian versions needed).

Rest of the current German volumes are [LL12; LL91a; LL87b; LL91b; LL91c; LL90a; LL92b; LL90b] (cleaning and linking to Russian versions needed).

## **4.2 A Shorter Course of theoretical Physics**

[LL74; LL72] (cleaning and linking to Russian versions needed)

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