

ICS 17.180
CCS A60



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 48222-2026

Technical specification for quantum squeezed light sources

量子压缩光源技术规范

(English Translation)

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Foreword

GB/T 48222-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 September 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 April 2027.

It is under the responsibility of the Standardization Administration of China.

Classification: ICS 17.180; CCS A60.

1 Scope

This technical specification covers quantum squeezed light sources, devices that generate light with reduced noise in one quantity at the expense of another, a resource used in quantum metrology, quantum communication, and precision sensing. The standard supports a field that is still developing, where common terminology and a shared basis for describing devices are valuable.

Research laboratories, manufacturers of quantum optical equipment, system developers, and procurement teams are the likely readers, as are test and calibration bodies that need to evaluate such sources. It is a recommended national standard (GB/T), so it is voluntary unless adopted by a contract or project.

It is a domestic Chinese document on an emerging technology. Organizations that develop or purchase squeezed light sources for the Chinese market can use it as a reference point when comparing devices and when writing procurement requirements. It takes effect on 1 April 2027.