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## Stringent tests of QED using highly charged ions

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Present status of tests of QED with highly charged ions is discussed. The high-precision calculations of the Lamb shift, hyperfine splitting, and bound-electron  $g$  factor are compared with the corresponding experimental data. The calculations of the electron-positron pair-creation probabilities in low-energy heavy-ion collisions are considered. Special attention is focused on tests of QED at strong coupling regime within and beyond the Furry picture and in supercritical fields.

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