



**Ninth Conference on  
QUANTUM FIELD THEORY  
UNDER THE INFLUENCE  
OF EXTERNAL CONDITIONS**

**The University of Oklahoma  
Norman, OK, USA  
September 21-25, 2009**

**Topics of QFEXT09 include the following:**

- **Casimir and van der Waals forces**  
Progress in theory and new experiments  
Applications at micro- and nanoscale
- **Casimir effect**  
Exact and approximate methods  
Related mathematical problems
- **Quantum vacuum effects in classical background fields**  
Renormalization  
Singular backgrounds  
Applications to particle, high energy,  
and atomic physics
- **Vacuum energy and gravity**  
Renormalization of Einstein's equations  
with singular source functions  
Vacuum energy in supersymmetric and  
noncommutative theories

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The conference is devoted to the Centenary of H. B. G. Casimir (born July 15, 1909, died May 4, 2000). Photograph used by permission of AIP Emilio Segre Visual Archives. Background photo (courtesy of Liming Dai) is a scanning electron microscope image of vertically aligned multiwalled carbon nanotubes used for dry adhesive applications. [L. Ou, L. Dai, M. Stone, Z. Xia, and Z. L. Wang, Science, 322, 238 (2008)].