

Quantum
Physics

Normal and lateral Casimir force:

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Advances and prospects

[G. L.
Klimchitskaya](#)

*(Submitted on 22
Oct 2010)*

We
discuss

recent
experimental
and
theoretical
results
on the
Casimir
force
between
real
material
bodies
made of
different
materials.
Special
attention
is paid to
calculations
of the
normal
Casimir
force
acting
perpendicular
to the
surface
with the
help of
the
Lifshitz