

Abstract Submitted  
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**The Belle II Super B Factory Experiment at KEK** LEO PIILONEN,  
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— Plans for the Super B Factory at KEK and the associated Belle II detector will  
be presented. The new facility will be an upgrade of the existing KEKB electron-  
positron collider, with a target luminosity of  $8 \times 10^{35}$  /cm<sup>2</sup>/s - about 50 times  
greater than that of KEKB. The Belle II detector will study rare flavor physics  
processes with unprecedented sensitivity for indirect (virtual-particle) contributions  
from as-yet unexplored phenomena at the TeV scale.

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