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## The ILC Positron Source

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High luminosity is required at future Linear Colliders which is particularly challenging for all corresponding positron sources. At the ILC, polarized positrons are obtained from electron-positron pairs by converting high-energy photons produced by passing the high-energy main electron beam through a helical undulator. The conversion target undergoes cyclic stress with high peak values. To distribute the high thermal load, the target is rotated with 100 m/s. However, the cyclic stress over long time as well as the temperature dependent material parameters yield thermo-mechanical load which could exceed the recommended fatigue limit. In the talk, a general overview about the ILC positron source components is given as well as new results on the target stress evolution. The target design parameters are reviewed as well.

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