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Keithly Award Talk: Pushing the limits in ARPES

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A successively higher degree of parallelity in data acquisition has dramatically increased the information rate in angle resolved photoelectron spectroscopy (ARPES). This has been coupled to resolution improvements both in angle and energy. The development leading to the present state of the art is described, and recent results are presented. To extend the field further towards higher or lower energies, as well as higher resolution or larger acceptance angles, novel techniques are needed. Some recent and ongoing developments for this purpose will be described. It is also shown that the application of these techniques can be used to overcome some limitations in energy resolution even when the angular information as such is not important.