

## Increasing the Pitch: PSF, Power, Noise, Signal

The power consumption and the savings for different pitches in the TKR baseline configuration are shown in Table 1. Increasing the pitch by 40%, decreases the power by 24%.

Table 1 Effect of Pitch Increase on Angular Resolution, Power, Noise, Signal

Pitch [micron]	PSF(68) [deg]			TKR Power [W] (Change [%])	Noise Increase EoM@25 deg [%]		Signal Increase @80deg Incidence
	0.1GeV	1.0GeV	10GeV		1x	5x	
201	3.17	0.40	0.081	210 ( 0 )	0	0	0
235	3.24	0.41	0.085	184 (- 12)	5	6	17
282	3.26	0.42	0.091	159 (- 24)	25	22	40