**A dedicated survey of M dwarfs**

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Flares are seen on a range of stars including our Sun. However, flares  
  
from much stars less massive are more common. At the start of K2 we  
  
initiated a project to observe a range of late type stars to determine  
  
how the flare activity depended on mass and hence a better  
  
understanding of the underlying physics of flares. Our work will also  
  
have implications for determining how flares can effect the habitability  
  
of any exoplanets in the stellar system. Our target selection for  
  
Fields 4 and 5 will cover the M (and early L) spectral types and  
  
include up to several dozen targets. Since some flares can last only a  
  
few to tens of mins some of our observations were configured in short  
  
cadence mode.