

# Hunting for

(stellar mass)

# Black Holes

Satellites and Telescopes - 8<sup>th</sup> November 2006 - Lindsey Shaw Greening

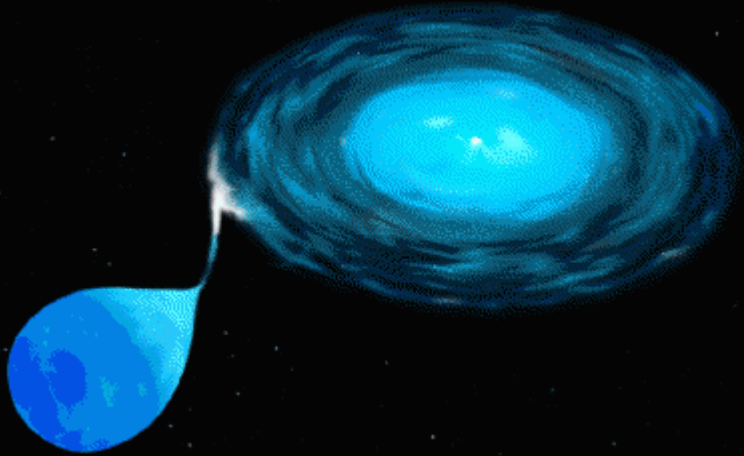
# Why do we have to Hunt?

“Well, the thing about a black hole, its main distinguishing feature, is it's black. And the thing about space, the colour of space, your basic space colour, is it's black.”

Grant and Naylor 1989

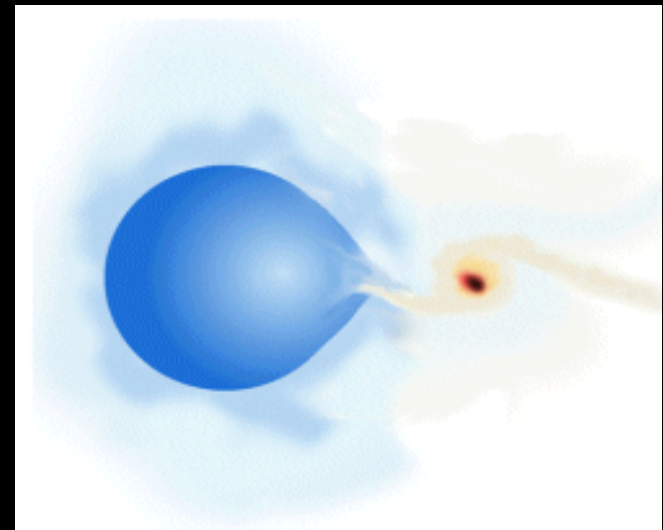
So how are you supposed to see them?

# So how can we find them?



High Mass X-ray Binary -  
the companion is more than 10  
times the mass of the sun and the  
accretion disc is formed from the  
matter in the stellar wind

Low Mass X-ray Binary -  
The companion is less massive  
than the sun, the accretion disc is  
formed from matter stripped  
from the companion by the black  
hole.



# What do we use?



Image courtesy of ESA

XMM-Newton (ESA)



Image credit : CXC/NGST

Chandra (NASA)

What do we see?

