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## Neutron Star merger

gravitational waves, gamma rays  
*cosmic rays, neutrinos*

Name: \_\_\_\_\_

Detections: \_\_\_\_\_



## Blazar flare

radio, optical, X-rays, gamma rays  
*cosmic rays, neutrinos*

Name: \_\_\_\_\_

Detections: \_\_\_\_\_



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## Solar flare

radio, optical, X-rays, gamma rays  
*cosmic rays, neutrinos*

Name: \_\_\_\_\_

Detections: \_\_\_\_\_



## Supernova

optical, X-rays, gamma rays  
*cosmic rays, neutrinos*

Name: \_\_\_\_\_

Detections: \_\_\_\_\_



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## Gamma Ray Burst

gamma rays  
*cosmic rays, neutrinos*

Name: \_\_\_\_\_

Detections: \_\_\_\_\_



## Sun

sunlight, X-rays, gamma rays  
*cosmic rays, neutrinos*

Name: \_\_\_\_\_

Detections: \_\_\_\_\_



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## Obscured Blazar

radio, *neutrinos*

Name: \_\_\_\_\_

Detections: \_\_\_\_\_



Name: \_\_\_\_\_

Detections: \_\_\_\_\_



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### **How to play this game:**

You are what they call a source, a massive object somewhere deep in space, sending out its signals. **First**, write your name on the front. Then check the info about yourself and start looking for teams of **detectors** that can detect several of your different messengers. Those in *italics* haven't really been seen yet from that source, but we will play as if they have. Count how many detectors have seen you like so: . And any time you're wondering what all these crazy words actually mean, just ask one of the **physicists**. Welcome to the IceCube Masterclass!

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