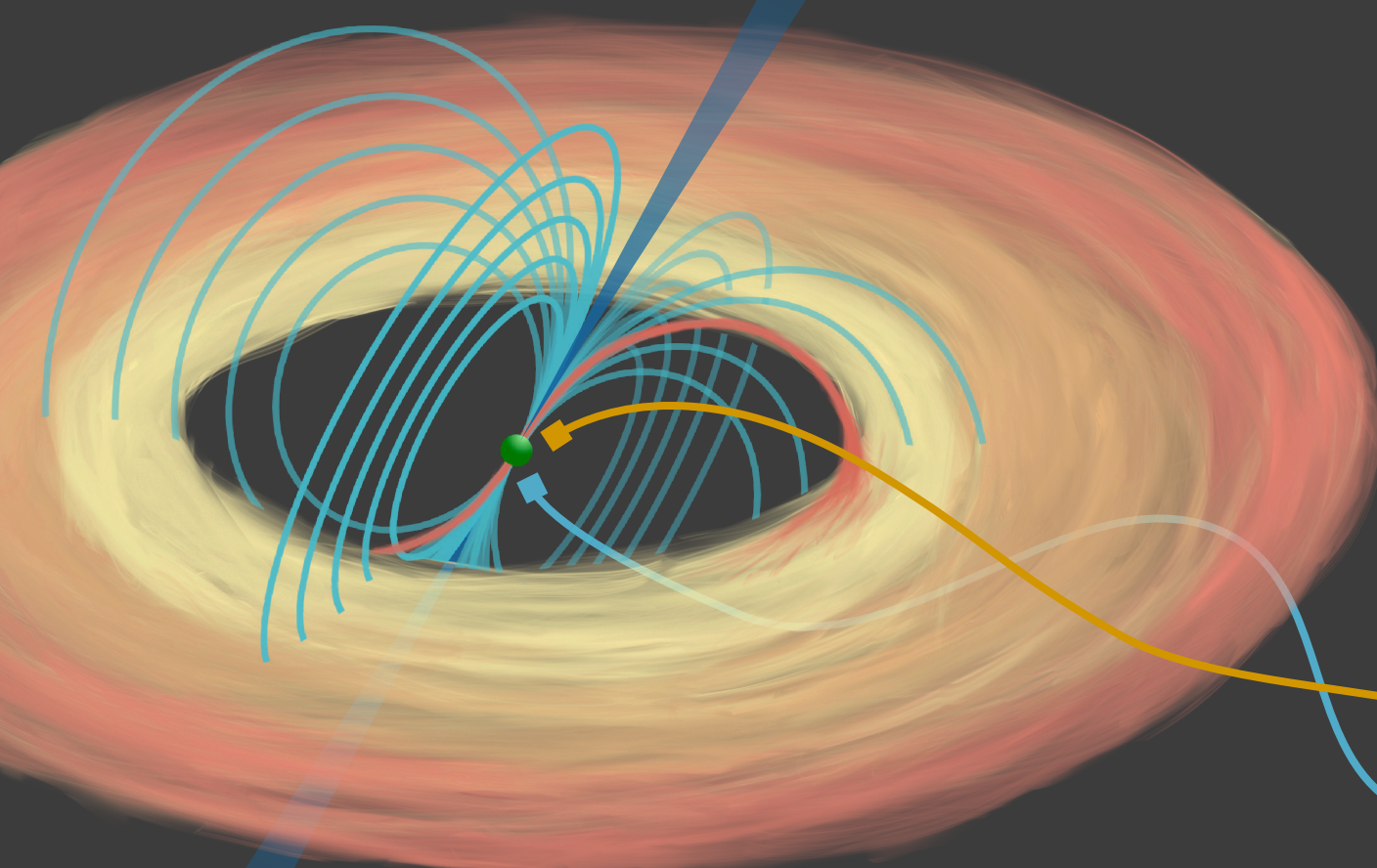


Decomposing X-ray Pulsar Pulse Profiles using Blind Source Separation

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The emission from X-ray pulsars is quite complex. We often see emission from **both poles mixed** together!

To disentangle the components, we use a **blind source separation** technique called non-negative matrix factorization (NMF).

The results for the **Cen X-3** test case are surprising! We find two distinct components. Both are **asymmetric** in phase!

