Color appearance during a display







Costa's humingbird (Calypte costae)



Broad-tailed hummingbird (Selasphorus platycercus)



Calliope
hummingbird
(Selasphorus calliope)



Natural color appearance:

- % change in color appearance (flashiness)
- average color appearance

Deviation in color appearance





(focal species: Calliope hummingbird)



Mis-matched color appearance