o    Introduction: 2-3 minutes (Overview, MH370 as the need to improve)

o   Scalar POLSAR models: 10-15 minutes

§  Intro - problem description: 1 min

§  Related work: 2-3 mins

·         intro: s\_part, s\_full, c\_part, c\_full, these are different from optical physics

·         from model: none satisfying 1) being representative 2) result in discrimination measure

·         from discrimination measure: 1) what is representative? det and trace 2) based on precise model? No only asymptotic

§  Body: 6-9 mins

·         dig deeper: Complex Wishart model, Wilk model

·         determinant model, determinant ratio model

·         dispersion and contrast model

·         also includes traditional SAR models

§  Wrap up: 1 min: pros and cons (not physical phenomena, not physicist)

o   Homoskedastic models: 10 minutes

§  Intro - problem description: 1 min (POLSAR narrow distribution, SAR vicious circle in speckle filtering)

§  Related work: 1-2 mins

§  Body: 5-6 mins

§  Wrap up: 1 min

o   Applications: 3-4 minutes

§  kMLE: 1 min

§  fMLE: 1 min

§  MSE: 1 min

§  ENL: 1 min

§  SAR -> POLSAR: 1 min

o   Conclusion & QA: 1-2 minutes