## crystallite\_stressAndItsTangent(stiffness calculation) crystallite\_converged .false. .true. crystallite\_dPdF = crystallite\_fallbackdPdF myState = constitutive\_state myF = crystallite\_subF myFp = crystallite\_Fp myFe = crystallite\_Fe myLp = crystallite\_Lp myP =crystallite\_P k=1,3I=1,3 crystallite\_subF(:,:) = myF crystallite\_subF(k,l) = crystallite\_subF(k,l) + pert\_Fg onTrack = .true. converged = .false. NiterationState = 0 STIFFNESS LOOP: .not. converged .and. onTrack .and. NiterationState < nState NiterationState = NiterationState + 1 onTrack = crystallite\_integrateStress onTrack .true. .false. converged = crystallite\_updateState Ø converged .false. .true. Ø crystallite\_dPdF = ( crystallite\_P-myP ) / pert\_Fg constitutive\_state = myState crystallite Fp=myFp crystallite\_Fe=myFe crystallite\_Lp = myLp crystallite\_P = myP