crystallite stressAndItsTangent (Crystallite Loop) NiterationCrystallite = NiterationCrystallite + 1 any: .not. crystallite_converged .and. .not. crystallite_localConstitution .true. .false. Ø all: crystallite_converged = crystallite_converged and, crystallite_localConstitution crystallite_converged .true. .false. WINDING FORWARD: **CUTBACK:** crystallite_subFrac = crystallite_subFrac + crystallite_subStep crystallite_subStep = 0.5 * crystallite_subStep crystallite_Fp=crystallite_subFp0 crystallite_subStep = min(1.0 - _crystallite_subFrac, 2.0 * crystallite_subStep) crystallite_Lp = crystallite_subLp0 constitutive_state = crystallite_subState0 crystallite subStep>subStepMin .false. .true. crystallite subF0 = crystallite subF crystallite subFp0=crystallite Fp Ø crystallite subLp0 = crystallite Lp constitutive_subState0 = crystallite_state crystallite_onTrack = crystallite_subStep > subStepMin crystallite_onTrack .false. .true. crystallite_subF = crystallite_subF0 + crystallite_subStep*(crystallite_partionedF - crystallite_partionedF0) crystallite_subdt=crystallite_subStep*crystallite_dt Ø crystallite_converged = .false. crystallite_updateState NiterationState = 0 STATE LOOP: any: crystallite_requested.and. crystallite_onTrack.and..not.crystallite_converged .and. NiterationState < ncryst NiterationState = NiterationState + 1 crystallite_requested .and. crystallite_onTrack .and. .not crystallite_converged .true. .false. crystallite_onTrack=crystallite_integrateStress Ø crystallite_requested.and.crystallite_onTrack.and..not.crystallite_converged .true. .false. crystallite_converged=crystallite_updateState Ø