

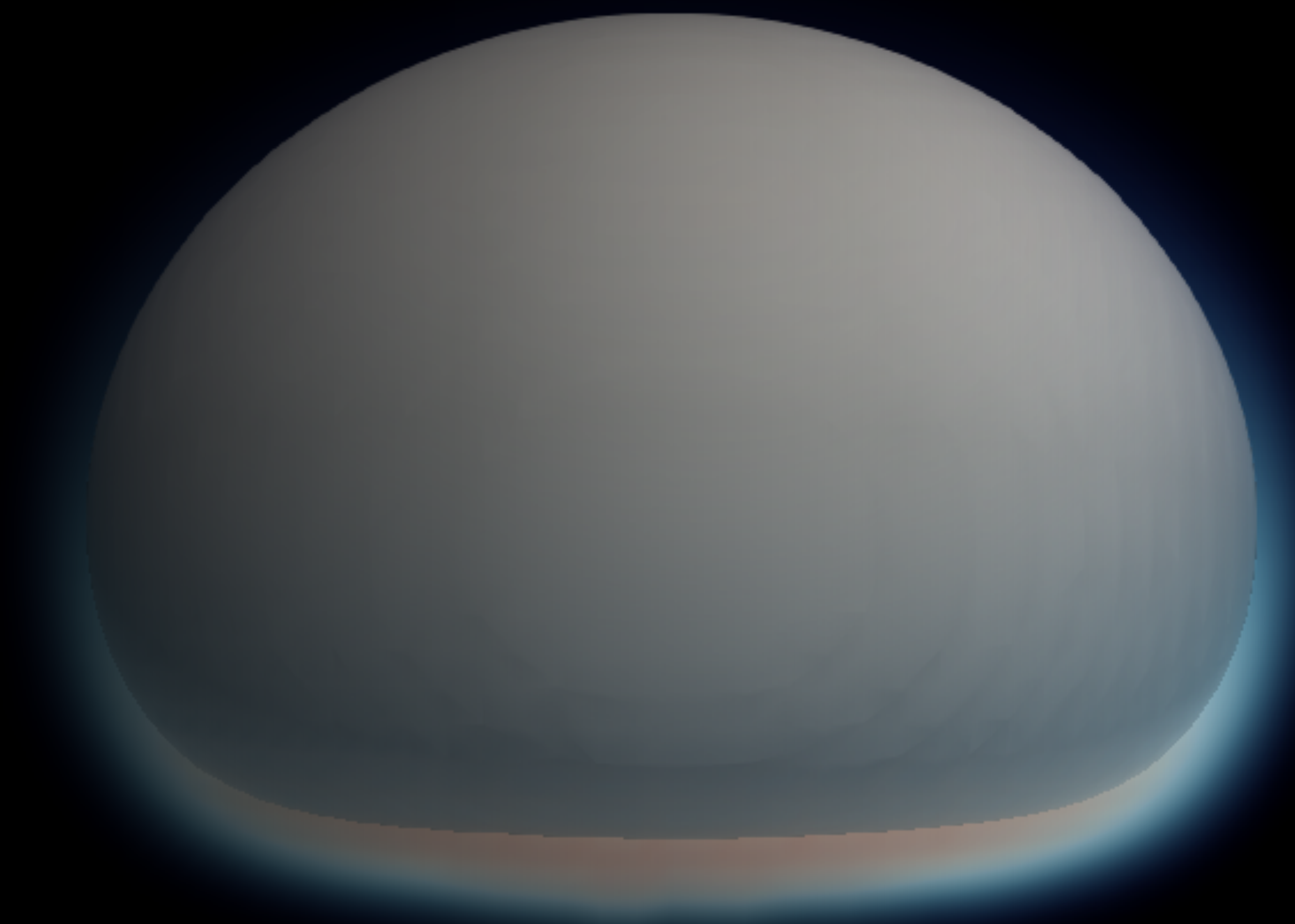
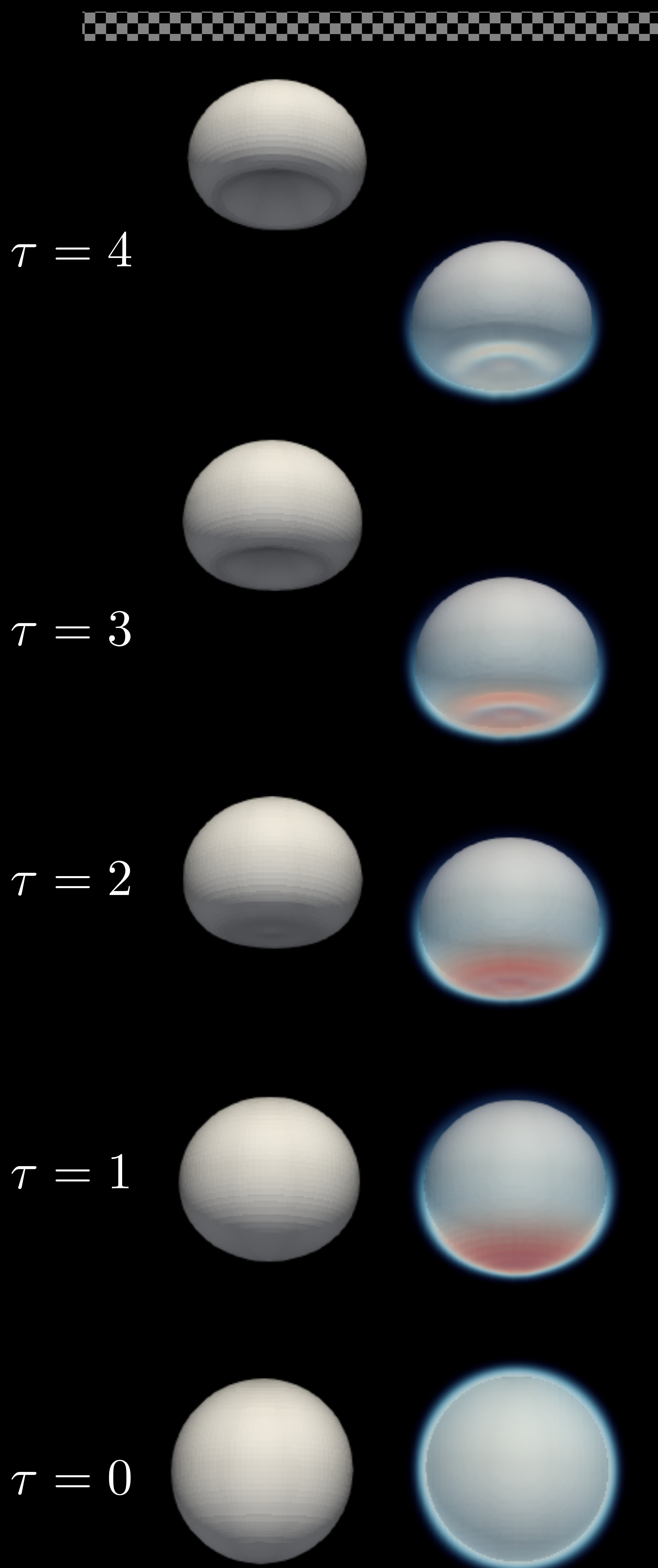
A Race of Clean Bubble vs Contaminated Trouble

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Interfacial tension between two immiscible fluids can be modified because of the presence of surfactants. The rise velocity of bubbles is reduced in presence of surfactants because of a surface tension gradient created as surfactants are swept to the rear of the bubble. The figures show the interface of a rising bubble and surfactant concentration (high to low: red - white -blue) produced by Direct Numerical Simulation (Basilisk, <http://basilisk.fr>).

