



**Pacific
Conference on
Spectroscopy and
Dynamics**

**JANUARY 30-FEBRUARY 2, 2020
BAHIA RESORT HOTEL, SAN DIEGO, CALIFORNIA**



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67TH PACIFIC CONFERENCE ON SPECTROSCOPY AND DYNAMICS

BAHIA RESORT HOTEL
SAN DIEGO, CALIFORNIA, USA

JANUARY 30 – FEBRUARY 2, 2020

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Abstracts for Talks and Posters

Refractive index at low temperature of tetrachloromethane and tetrafluoroethane cryovacuum condensates

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We present low-temperature measurements of the refractive index of cryofilms of tetrachloromethane (CCl_4) and tetrafluoroethane ($\text{F}_3\text{C-CFH}_2$, a.k.a. Freon 134a) at different condensation and measurement temperatures, between 16 K and 130 K. Using cryovacuum condensation, we have been able to obtain thin films in amorphous state for both substances, despite being very bad glassformers. Then, we have studied the evolution of the refractive index with increasing temperature, including by transitions to ordered or partially - disordered crystalline states.