

Meeting Name:	General Assembly Meeting EQUBITFLY	 <p>Objectives: Share the activities and results of 1st Reporting Period, Review plans for coming Year</p>
Meeting Date:	05-06/02/2025	
Meeting Venue:	MARSEILLE - Campus de Luminy	
Contact Person N°1:	Christopher Bauerle - Neel : christopher.bauerle@neel.cnrs.fr	
Contact Person N°2:	Elodie Sollier - Benkei : elodie@benkei.eu / +33(0) 7 87 81 95 54	

Wednesday 05/02/2025				
Agenda Item	Remark	Leader	Starting Time	Duration
Guests connexion			09:10	00:10
Welcome & Opening of the session	Welcome word	Christopher BAUERLE	09:20	00:10
Session 1: Anyons (20' presentation + 5' Q&A) ; Chair: T. Martin				
Talk #1	Anyonic braiding on the edge of a fractional quantum Hall effect	Christophe MORA	09:30	00:25
Talk #2	Time-domain braiding of anyons	Mélanie RUELLE	09:55	00:25
Talk #3	Periodic source of energy-entangled electrons in helical states coupled to a BCS superconductor	Flavio RONETTI	10:20	00:25
COFFEE BREAK			10:45	00:25
Session 2: Experimental Techniques (20' presentation + 5' Q&A) ; Chair: H. Sellier				
Talk #4	Fractional quantum Hall state preserving electrostatic gates	Lukas BERG	11:10	00:25
Talk #5	Integrated optoelectronic circuits for the excitation and control of electronic pulses at the picosecond time scale	Nathan ROUSSEL	11:35	00:25
LUNCH - Plateaux Repas			12:00	02:00
Session 3: Quantum interference & Single Electron Experiments (20' presentation + 5' Q&A) ; Chair: G. Fève				
Talk #6	Quantum eraser in graphene	Raphaël AYACHE	14:00	00:25
Talk #7	Quantum transport simulation for an electronic Mach-Zehnder interferometer	Lucas MAZZELLA	14:25	00:25
Talk #8	Time resolved sensing of electromagnetic fields with single electron interferometry	Elric FRIGERIO	14:50	00:25
Talk #9	Evidence of Coulomb liquid phase in few-electron droplets	Jashwanth SHAJU	15:15	00:25
COFFEE BREAK			15:40	01:00
Session 4: Theoretical Developpments (20' presentation + 5' Q&A) ; Chair: C. Mora				
Talk #10	Current and shot noise in a normal metal-superconductor junction driven by spin-dependent periodic pulse sequence.	Benoît GREMAUD	16:40	00:25
Talk #11	Approaches and Strategies for Cost-Efficient Tomography	Pascal DEGIOVANNI	17:05	00:25
End of the session	Wrap up of Day 1, Precisions for tomorrow	Christopher BAUERLE	17:30	00:25
END OF DAY 1			17:55	
DINNER - Restaurant Les Arcenaulx, Marseille				

Thursday 06/02/2025				
Agenda Item	Remark	Leader	Starting Time	Duration
Guests connexion			09:00	00:10
EQUBITFLY overview	Project ambition and vision , present status (ANR will be joining)	Christopher Bauerle - Neel (CNRS)	09:10	00:30
WP1 (objectives and results)	Structure, participants, expected results, activities & achievements, next steps	Preden Roulleau - IRAMIS (CEA)	09:40	00:20
WP2 (objectives and results)	Structure, participants, expected results, activities & achievements, next steps	Gwendal Feve - ENS Lyon (CNRS)	10:00	00:20
WP3 (objectives and results)	Structure, participants, expected results, activities & achievements, next steps	Ulf Gensser - C2N (CNRS)	10:20	00:20
WP4 (objectives and results)	Structure, participants, expected results, activities & achievements, next steps	Christopher Bauerle - Neel (CNRS)	10:40	00:20
WP5 (objectives and results)	Structure, participants, expected results, activities & achievements, next steps	Thibaut Jonkheere - CPT	11:00	00:20
WP6 (objectives and results)	Structure, participants, expected results, activities & achievements, next steps	Elodie Sollier (Benkei) / Christopher Bauerle (Neel)	11:20	00:20
Conclusion & Wrap-Up	Next Steps, Wrap up, discussion	Christopher Bauerle (Neel) + ALL	11:40	00:20
END OF MEETING --- LUNCH & DEPARTURE			12:00	
LUNCH - CIRM, Luminy - 12h30			12:30	