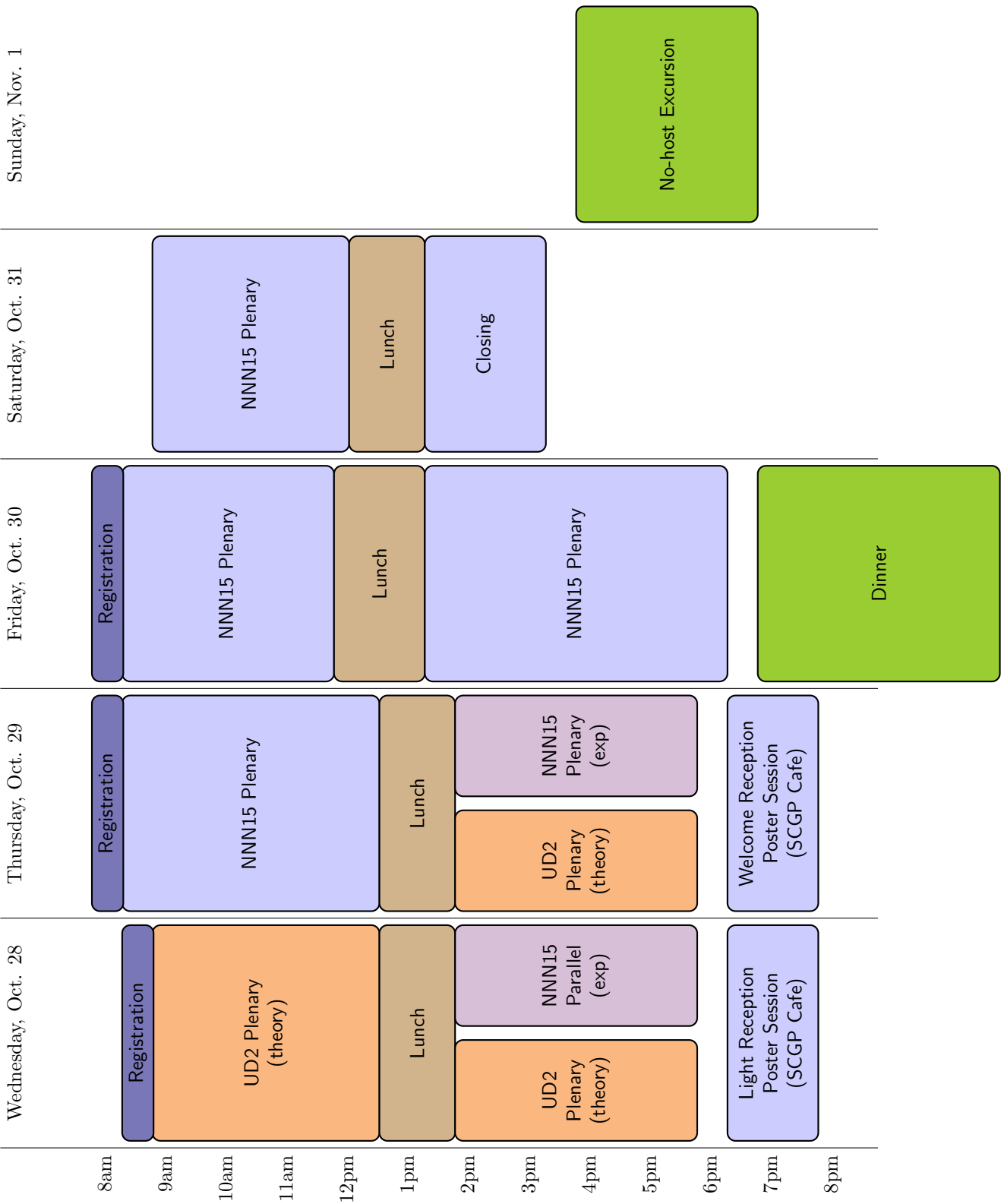


International Workshop for the Next Generation Nucleon Decay and Neutrino Detector (NNN15) and Unification Day 2 (UD2)

Wednesday 28 October 2015 - Saturday 31 October 2015

**Stony Brook University
Programme**

NNN2015 and Unification Day 2 Schedule Overview



Wednesday 28 October 2015

Registration - SCGP Entry Foyer (28 October 08:30-09:00)

UD2 Plenary - SCGP Lecture Hall, Rm 102 (28 October 09:00-12:40)

- **Conveners:** Marciano, Bill (BNL); Shrock, Robert (Stony Brook)

time	title	presenter
09:00	UD2 Welcoming Remarks	MORGAN, John (SCGP)
09:05	Brief Introduction	JUNG, Chang Kee (Stony Brook)
09:10	Unification and Proton Decay	PATI, Jogesh (SLAC)
09:40	Testing SUSY SO(10) at the LHC	RABY, Stuart (Ohio State University)
10:10	Neutrino masses and mixings as an evidence of GUT, and the impact to nucleon decay and leptogenesis	MAEKAWA, Nobuhiro (Nagoya Univ. KMI)
10:40	Coffee Break	
11:10	TeV scale Lepton number violation and origin of matter	MOHAPATRA, Rabindra (University of Maryland, College Park)
11:40	Unification and light vector-like fermions	DERMISEK, Radovan
12:10	Aspects of a realistic SUSY SO(10)	TAVARTKILADZE, Zurab

Lunch - On your own (12:40-14:00)

NNN15 Parallel: Water Cherenkov and Liquid Scintillator detectors - Math Common Room, 4-125 (4 th -5 th floor) (28 October 14:00-18:15)

- **Conveners:** Wendell, Roger (ICRR); Grant, Darren (U. of Alberta)

time	title	presenter
14:00	Liquid Scintillator technologies (including water based and achieving 3% energy resolution)	DENG, Ziyang (IHEP)
14:25	Gd doping (EGADs, Watchmen, ANNIE)	VAGINS, Mark (IPMU/Tokyo)
14:50	Developments in photosensors (LAPPDs)	WETSTEIN, Matthew (Iowa State University)
15:15	Developments in photosensors (broad scope)	WENDELL, Roger (ICRR) GRANT, Darren (U. of Alberta)
15:40	Coffee Break	
16:00	JUNO (R detector focus)	ZHAO, Jie (IHEP)
16:20	HyperK (R focus)	NISHIMURA, Yasuhiro (ICRR)
16:40	SNO+ status and prospects	COULTER, Ian (U. of Pennsylvania)
17:05	PINGU	HIGHNIGHT, Joshua (Michigan State University)

17:25	ORCA	JONGEN, Martijn (Nikhef)
17:50	Physics with a very large WBLSn experiment	KLEIN, Josh (U.Penn)

NNN15 Parallel: Liquid Argon TPC detectors - SCGP Auditorium (28 October 14:00-18:15)

- Conveners: Hasegawa, Takuya (KEK); Raaf, Jennifer (Fermilab)

time	title	presenter
14:00	The present status of ICARUS and its next future at Fermilab	MENEGOLLI, Alessandro (U. and INFN Pavia)
14:25	Charge readout and construction of the first WA105 large Double Phase Liquid Argon TPC	WU, Shuoxing (ETH Zurich)
14:50	Status & plans of the WA105 6x6x6 m ³ Double Phase Liquid Argon TPC at CERN neutrino platform	BOLOGNESI, Sara (CEA Saclay)
15:15	DUNE Single Phase Liquid Argon TPC prototyping at CERN and Fermilab	INSLER, Jonathan
15:40	Coffee	
16:10	Captain: Status and plans for cross-sections measurements relevant for DUNE	WHITEHEAD, Lisa (U. of Houston)
16:35	ArgoNeut: Status and plans for cross-sections measurements relevant for DUNE	FLANAGAN, Will
17:00	Towards realisation of very high voltage for Liquid Argon TPCs: present R status and future challenges	LOCKWITZ, Sarah (Fermilab)
17:25	Overview of light readout solutions applicable to large underground Liquid Argon TPCs	SZELC, Andrej (Manchester)
17:50	Triggering and charge readout of Liquid Argon TPCs from MeV to multi-GeV	TSAI, Yun-Tse (SLAC)

UD2 Plenary - SCGP Lecture Hall, Rm 102 (28 October 14:00-17:30)

- Conveners: Chen, Mu-Chun (UCI); Goswami, Srubabati (Physical Research Laboratory, India)

time	title	presenter
14:00	B-L violating proton decay and baryogenesis	KALADI, Babu (Okalahoma State U.)
14:30	Realistic F-theory Compactifications	CVETIC, Mirjam (University of Pennsylvania)
15:00	Predictions of F-theory GUTs	HEBECKER, Arthur (University of Heidelberg)
15:30	Coffee Break	
16:00	Inflation, GUTs and Phenomenology	SHAFI, Qaisar (University of Delaware)
16:30	Affleck-Dine Sneutrino Inflation	EVANS, Jason (University of Minnesota)
17:00	Yukawa structure in SUSY SO(10)	AULAKH, Charanjit Singh (IISER Mohali, India)

Poster - SCGP Café area (28 October 18:30-20:00)

Thursday 29 October 2015

Registration - SCGP Entry Foyer (29 October 08:00-08:30)

NNN15/UD2 Joint Plenary Session: Opening Session and Theoretical Overview - SCGP Auditorium (29 October 08:30-12:45)

- Conveners: Kettell, Steve (BNL); Pati, Jogesh (SLAC)

time	title	presenter
08:30	Welcoming Remarks	KOPP, Sacha (Stony Brook)
08:35	Workshop Introduction	JUNG, Chang Kee (Stony Brook University)
08:50	Review of GUTs/Unification Theories and Proton Decay/CPV/MH	MARCIANO, Bill (BNL)
09:25	Leptogenesis Models and CPV/MH measurements by NO experiments	DI BARI, Pasquale (U. of Southampton)
10:00	Coffee Break	
10:30	Review of Supernova Neutrinos	OTT, Christian (Caltech)
11:05	Review of Solar Neutrinos	VILLANTE, Francesco (INFN)
11:35	Cosmology and Neutrinos	WONG, Yvonne (The University of New South Wales)
12:10	Axions for QCD and Dark Matter	WITTEN, Ed (IAS)

Lunch (Workshop photo on ESS steps) - On your own. (12:45-14:15)

NNN15 Plenary: Sources and Control of Systematic Uncertainties in Long Baseline Neutrino Oscillation Experiments for CPV measurements - SCGP Auditorium (29 October 14:15-17:45)

- Conveners: McGrew, Clark (Stony Brook); Gonin, Michel (Ecole Polytechnique)

time	title	presenter
14:15	Theoretical Review of Sources of the Systematic Uncertainties in NNN experiments	COLOMA, Pilar (Fermilab)
14:45	Recent Results from MINERvA (Cross-section Related Systematic Uncertainties)	FIELDS, Laura (Fermilab)
15:10	Recent Results from NA61 (Flux Related Systematic Uncertainties) and from T2K (Overall Systematic Uncertainties)	BRAVAR, Alessandro (Geneva)
15:50	Coffee Break	
16:20	NuPRISM	WILKING, Michael (Stony Brook)
16:45	HyperK Strategy for Controlling Systematic Uncertainties	SHORT, Sam (Queen Mary U. of London)
17:05	NOvA Strategy for Controlling Systematic Uncertainties	VAHLE, Patricia (William and Mary)
17:25	DUNE Strategy for Controlling Systematic Uncertainties	WORCESTER, Elizabeth (Brookhaven National Lab)

UD2 Plenary - SCGP Lecture Hall, Rm 102 (29 October 14:15-17:45)

- Conveners: Babu, Kaladi (Oklahoma State); Maekawa, Nobuhiro (Nagoya U.)

time	title	presenter
14:15	Relating flavor physics and nucleon decay	BARR, Steve (University of Delaware)
14:45	Proton decay in non-SUSY SO(10)	KHAN, Saki (Oklahoma State University)
15:15	CP violating phases and leptogenesis	PASCOLI, Silvia (U. of Durham)
15:45	Coffee Break	
16:15	Flavor symmetries for quarks, leptons and neutrinos	CHEN, Mu-Chun (University of California-Irvine)
16:45	Neutrino flavor models	EVERETT, Lisa (U. of Wisconsin)
17:15	Global picture of neutrino oscillations	GOSWAMI, Srubabati (Physical Research Laboratory, India)

Poster - SCGP Café area (29 October 18:00-20:00)

Friday 30 October 2015

Registration - SCGP Entry Foyer (30 October 08:00-08:30)

NNN15 Plenary: Recent Results from Running Experiments - SCGP Auditorium (30 October 08:30-12:05)

- **Conveners:** Cao, Jun (IHEP); Vahle, Patricia (William and Mary)

time	title	presenter
08:30	Recent Results from Super-Kamiokande and Upgrade Plan (SK-Gd)	IKEDA, Motoyasu (ICRR)
08:55	Recent Results from Reactor Neutrino Experiments	WAGNER, Stefan (CBPF, Brazil)
09:30	Recent Results from MINOS/MINOS+	WHITEHEAD, Leigh (U. C. London)
09:55	Coffee Break	
10:25	Recent Neutrino Oscillation Results from T2K	HIRAKI, Takahiro (Kyoto)
10:50	First Results from NOvA	SOUSA, Alexandre (University of Cincinnati)
11:15	First Look at MicroBooNE	CARLS, Benjamin (Fermilab)
11:40	Review of Sterile Neutrino Searches	GIUNTI, Carlo (INFN-Turin)

Lunch - On your own (12:05-13:30)

NNN15 Plenary: Future Experiments (Approved or Proposed) - SCGP Auditorium (30 October 13:30-17:55)

- **Conveners:** Tanaka, Hiro (U. of Toronto, IPP, TRIUMF); Rameika, Regina (Fermilab)

time	title	presenter
13:30	PINGU (including ICECUBE/DEEPCore) Km3Net/ORCA (including ANTARES)	DEYOUNG, Tyce (Michigan State)
14:05	Status of JUNO	YU, Zeyuan (IHEP)
14:30	Status of INO	NAIMUDDIN, Md. (Delhi U.)
14:55	Coffee Break	
15:25	FNAL short baseline program	GUENNETTE, Roxanne (Oxford U.)
15:50	Status of DUNE@LBNF	KUTTER, Thomas (LSU)
16:15	Review of LAr TPC event reconstruction: Progress and Challenges	STEFAN, Dorota (CERN/NCBJ)
16:40	Hyper-Kamiokande	TANAKA, Hide-Kazu (ICRR)
17:05	Review of Neutrino Beamline R&D	FRIEND, Megan (KEK)
17:30	Neutrino Beamline Optimization Studies	FIELDS, Laura (Fermilab)

Saturday 31 October 2015

NNN15 Plenary: Synergies and Other Related Topics - SCGP Auditorium (31 October 09:00-12:15)

- **Conveners:** Rubbia, Andre (ETH Zurich); Nakaya, Tsuyoshi (Kyoto U.)

time	title	presenter
09:00	Developments in the World's Deep Underground Laboratories	PALING, Sean
09:25	Large Underground Cavity Excavations	LAUGHTON, Chris (ILF Consultants, Inc.)
09:50	Liquid Xe detectors for double beta decay and connection with large LAr detectors	POCAR, Andrea (U. of Mass Amherst)
10:15	Coffee Break	
10:45	Status of Fermilab and future plans	BRICE, Steve (Fermilab)
11:15	Status of J-PARC and future plans	SAITO, Naohito (J-PARC)
11:45	Poster Presentation Winners' Oral Presentations	

Lunch - On your own. (12:15-13:30)

NNN15 Plenary: Summary/Highlights of Parallel Sessions and Closing - SCGP Auditorium (31 October 13:30-15:30)

- **Conveners:** Jung, Chang Kee (Stony Brook)

time	title	presenter
13:30	LAr Detectors	MURPHY, Sebastien (ETH Zurich)
14:05	Water Cherenkov and Liquid Scintillator Detectors	HE, Miao (IHEP)
14:40	Closing Remarks	LYKKEN, Joseph (Fermilab)
15:15	NNN 2016 Presentation	CAO, Jun (IHEP)
15:20	Closing of the Workshop	

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Restaurant Guide

Around and near Stony Brook, there are many restaurants to try. In addition to Student Activity Center, Stony Brook Union, Jasmine, West Side Dinning on Campus, there are numerous restaurants along Rte. 25A (North Country Rd.), Rte. 347 (Nesconset Hwy) and Rte. 25 (Middle Country Rd). There are clusters of restaurants in Stony Brook (Main St.), Port Jefferson Village, St. James (Lake Ave.), and Smithtown (Main St.). Here is the list of some restaurants in the area. Please refer to yelp.com and zagat.com etc. for more information.

Price: \$ inexpensive, \$\$ modest, \$\$\$ pricey from Yelp.com; Rating by CKJ, the more asterisks the better; # Some live music, As some places have live music sporadically, please call for performance

Spanish

- Espana Tapas & Wine Bar, 655 Middle Country Rd, St. James, 631-656-1564, espanatapasny.com, \$\$ ** #
- La Parrilla, 9 Trader Cove, Port Jefferson, 631-509-4848, laparrillaportjeff.com, \$\$
- Café Havana (Cuban), 944 W Jericho Turnpike (Rte. 25), 631-670-6277, cafehavanali.com, \$\$ **

Mexican

- Green Cactus, 1009 N. Country Rd. (Rte. 25A), Stony Brook, 631-751-0700, \$ **
- Cabo Fresh Mexican Grill, 2182 Nesconset Hwy (Rte. 347), Stony Brook, 631-751-2226, cabofreshmex.com, \$\$
- Azulejos, 368 Middle Country Rd. (Rte. 25), Smithtown, 631-257-5033, azulejosculisine.com, \$\$\$
- Del Fuego (Tex-Mex), 429 N. Country Rd. (Rte. 25A), St. James, 631-963-6900, delfuegorestaurant.com, \$\$
- Salsa Salsa (Tex-Mex), 142 Main St., Port Jefferson, 631-473-9700, \$

Japanese & Thai

- Benten, 971 New York 25A, Miller Place, 631-209-2414, bentensushi.com, \$\$
- Sushi Ichi (Japanese, Thai), 700 Rte. 25A, East Setauket, 631-689-3111, sushi-ichi.us, \$\$ ***
- Domo Sushi, 180 Rte. 25A, East Setauket, 631-751-2299, domosushiny.com, \$\$
- Tai Show North, 316 Main St, East Setauket, 631-751-2848, taishow.com, \$\$
- Hoshi Sushi, 1320 Stony Brook Rd, Stony Brook, 631-689-2323, hoshisushilongisland.com, \$\$
- Hana, 21 Oakland Ave., Port Jefferson, 631-473-4262, hanapj.com. \$\$
- Raan Thai (Thai), 203 Terry Rd, Smithtown, 631-656-5887, \$\$
- Thai Gourmet Food (Thai), 4747 Nesconset Hwy (Rte.347), Unit 24, Port Jefferson Station, 631-474-0663, cash only, bring your drink, \$\$ ***

Chinese & Korean

- Green Tea, 1015 Rte. 25A, Stony Brook (across from the station), 631-689-1111, greentea-restaurant.com, \$\$
- Eastern Pavilion, 750 Rte. 25A, East Setauket, 631-751-1888, \$\$ **
- Golden Dynasty, 416 N. Country Rd. (Rte. 25A), St. James, 631-250-9888, \$\$
- Ssambap Korean BBQ, 2350 Nesconset Hwy, Stony Brook, 631-675-6402, ssambapbbq.com, \$\$ ***
- New Dori (Korean), 1087 Jericho Tpk (Rte.25), Commack, 631-864-3355, dorirestaurant.com, \$\$

Indian

- Raga, 130 Old Town Rd., East Setauket, 631-689-7242, ragali.com, \$\$ ***
- The Curry Club, 766 Rte. 25A, East Setauket, 631-751-4845, curryclubli.com, \$\$ **

Mediterranean & Middle Eastern

- Pita House (Turkish), 100-27 S Jersey Ave, East Setauket, 631-675-9051, pita-house.com, \$\$ **
- Choopan Grill (Afgan), 1310 Middle Country Rd. (Rte.25), Selden, 631-696-1817, choopangrill.com, \$\$
- Istanbul Café (Turkish), 2139 Middle Country Rd., Centereach, 631-738-6704, icafeli.com, \$\$
- Zar Café (Greek, Persian), 413 Lake Ave, St. James, 631-862-4444, zarcafe.us, \$\$

French/American (New)

- The Kitchen A Bistro, 404 N. Country Rd. (Rte. 25A), St. James, 631-862-0151, kitchenabistro.com, reservation recommended, cash only, bring your own drink, \$\$\$ ****
- Mirabelle, 150 Main St., Stony Brook (Three Village Inn), 631-751-0555, lessings.com, \$\$\$ *** #
- Voila the Bistro, 244 Lake Ave, St. James, 631-584-5686, voilathebistro.com, \$\$\$
- Bliss, 766 Rte. 25A, East Setauket, 631-941-0430, bissli.com, \$\$\$
- Fifth Season, 34 E Broadway, Port Jefferson, 631-477-8500, thefifth-season.com, \$\$\$ ***

Italian

- Pentimento, 93 Main St., Stony Brook, 631-689-7755, pentimentorestaurant.com, \$\$\$
- The Trattoria, 532 N. Country Rd. (Rte. 25A), St. James, thetrattoriarestaurant.com, reservation recommended, bring your own drink, cash/check only, \$\$\$ ****
- Ruvo, 105 Wynn Ln, Port Jefferson, 631-476-3800, ruvorestaurant.com, \$\$\$
- Pasta Pasta, 234 E Main St., Port Jefferson, 631-331-5335, pastapasta.net, \$\$\$
- The Pie, 216 Main St., Port Jefferson, 631-331-4646, Pizzeria, thepieofportjeff.com, \$\$ ***

American/Steak House/Sea Food

- Country House, 1175 N. Country Rd. (Rte.25A), 631-751-3332, countryhouserestaurant.com, \$\$\$
- Latitude 121, 121 Main St., Stony Brook, 631-675-9263, latitude121.com, \$\$\$ #
- Old Fields, 318 Wynn Ln, Port Jefferson, 631-331-9200, of1956.com, \$\$\$
- Schafer's, 111 W Broadway, Port Jefferson, 631-473-8300, shafersportjeff.com, \$\$ ** # (Sat)
- Wave Seafood Kitchen, 25 E Broadway, Port Jefferson, 631-928-5200, waveseafoodkitchen.com, \$\$\$ *** Note: it's at Danfords Hotel.
- Smoke Shack Blues (BBQ), 138 Main St., Port Jefferson, 631-438-6797, smokeshackblues.com \$\$
- PJ Lobster House, 1 N Country Rd. (Rte.25A), Port Jefferson, 631-473-1143, pjobsterhouse.com, \$\$ ***
- H2O Seafood & Sushi, 215 W Main St, Smithtown, 631-361-6464, h2oseafoodsushi.com, \$\$\$

Bars (Most of bars serve foods)

- Country Corner, 270 Main St, East Setauket, 631-751-2800 \$\$
- Brewology, 201 Main St, Port Jefferson, 631-509-1700 \$\$
- John Harvard's Brewery & Ale, 2093 Smith Haven Plaza, Lake Grove, 631-979-2739 \$\$
- The Arden, 201 Main St, Port Jefferson, 631-828-1111, \$\$\$ # (Sat)
- Port Jeff Brewing Company, 22 Mill Creek Rd, Port Jefferson, 877-475-2739 \$
- Velvet Lounge, 10 Woods Corner, East Setauket, Grad Students' hangout, 631-751-7575 \$ #
- Bench Bar & Grill, 1095 Rte. 25A, Stony Brook (across from the station), 631-675-1474, \$\$